Fluorescent Lamp Box

AIA3I-F-2

VIRDEN COMMERCIAL LIGHTING

A-26

PATENT OFFICE
NOV 9 1962
DIVISIONS 81 & 82

INCANDESCENT
FLUORESCENT

RETURN TO
DESIGN DIV.

PATENT OFFICE
NOV 9 1962
DIVISIONS 81 & 82

Information for

COMPUTING LIGHTING CALCULATIONS *Quickly, Easily*

(COEFFICIENTS ARE BASED ON THE INTERFLECTANCE METHOD AS ENDORSED BY THE ILLUMINATING ENGINEERING SOCIETY)

Following are two formulas and 3 tables that, in spite of their business-like appearance, are quite simple to use. First, determine what you want to know. If it is footcandles, use Formula 1. For number of fixtures required, use Formula 2. Formulas automatically refer you to the table which supplies the information necessary to complete your computation quickly and accurately. After going through the steps one or two times, you will find the entire procedure simple to follow.

FORMULA 1. *TO ESTABLISH FOOTCANDLES*

$$\text{Footcandles} = \frac{\text{Total Initial Lamp Lumens (Table 1)} \times \text{Coefficient of Utilization (See Table 2)} \times \text{Maintenance Factor (Table 3)}}{\text{Area (sq. feet) being lighted}}$$

FORMULA 2. *TO ESTABLISH FIXTURES REQUIRED IN AN AREA*

$$\text{Fixtures Required} = \frac{\text{Footcandles Desired} \times \text{Area (sq. feet) being lighted}}{\text{Coefficient of Utilization (See Table 2)} \times \text{Maintenance Factor (Table 3)} \times \text{Total Lumens Per Fixture (no. of lamps in fixture x initial lumens of the lamps as shown in Table 1)}}$$

TABLE 1

LAMP DESIGNATION	NOMINAL LAMP WATTS	A INITIAL** LUMENS COOL WHITE LAMPS	B INITIAL** LUMENS WARM WHITE LAMPS
	(For other Color Lamps see below)		
FLUORESCENT (preheat)			
F15T12	15	700	720
F20T12	20	1080	1110
F30T8	30	1900	1950
F40	40	2900	3000
RAPID START			
F30T12/RS	30.0	1850	1900
F40	40	2900	3000
SLIMLINE			
F48T12	39	2600	2700
F72T12	56	4100	4200
F96T12	74	5600	5700
HIGH OUTPUT (800 MA)			
F48T12/HO	60.0	3500	—
F72T12/HO	85.0	5550	—
F96T12/HO	105.0	7900	—
VERY HIGH OUTPUT (1500 MA)			
F48T12/VHO*	110	6900	—
F72T12/VHO*	160	10900	—
F96T12/VHO*	215	15000	—
POWER GROOVE (1500 MA)			
F48PG17	110	6900	—
F72PG17	160	10900	—
F96PG17	215	15000	—

**Manufactured by Westinghouse under designation SHO*
**For other lamp colors use conversion table below.
Multiply number shown in factor column times initial lumens shown above in the column designated (A or B)

Color of Lamp	Factor	Initial Lumen Column
Deluxe Cool White	0.73	A
Deluxe Warm White	0.73	B
Daylight	0.86	A
Soft White	0.68	A

TABLE 3

MAINTENANCE FACTOR (Cleaning and Relamping of fixture)

Excellent	**.80**
Good	**.70**
Poor	**.60**

TABLE 2 ROOM RATIOS

TO DETERMINE COEFFICIENT OF UTILIZATION

Shown are 3 factors that affect the coefficient—width and length of room, and height of fixture mounting. To use the table, select correct room width from col. 1. Then find room length in col. 2. In the line directly opposite the room length go to column showing correct fixture mounting height. Here is a numerical designation. For room lengths not shown, use either the next smaller listed room ratio or interpolate for greater accuracy. Take this ratio to the Photometrics section on the catalog page of the fixture involved. Locate your ratio (Column 2, Coefficients). Opposite the ratio are the coefficients. Rc indicates ceiling reflectance, Rw, wall, Rf, floor (As a Guide, True White has a reflectance of 80%).

Room Width (feet)	Room Length (feet)	DIRECT, SEMI-DIRECT AND GENERAL DIFFUSE LIGHTING Mounting Height above Floor (feet)							
		8	9	10	12	15	19	27	43
10	10	0.9	0.8	0.7	0.5				
	14	1.1	0.9	0.8	0.6	0.5			
	20	1.2	1.0	0.9	0.7	0.5			
	25	1.3	1.1	1.0	0.8	0.6			
	30	1.4	1.2	1.0	0.8	0.6	0.5		
12	12	1.1	0.9	0.8	0.6	0.5			
	16	1.3	1.1	0.9	0.7	0.6			
	20	1.4	1.2	1.0	0.8	0.6	0.5		
	30	1.6	1.3	1.1	0.9	0.7	0.5		
14	14	1.3	1.1	0.9	0.7	0.6			
	18	1.4	1.2	1.1	0.8	0.6	0.5		
	20	1.5	1.3	1.1	0.9	0.7	0.5		
	30	1.7	1.5	1.3	1.0	0.8	0.6		
	40	1.9	1.6	1.4	1.1	0.8	0.6		
16	16	1.5	1.2	1.1	0.8	0.6	0.5		
	20	1.6	1.4	1.2	0.9	0.7	0.5		
	30	1.9	1.6	1.4	1.1	0.8	0.6		
	40	2.1	1.8	1.5	1.2	0.9	0.7	0.5	
20	20	1.8	1.5	1.3	1.1	0.8	0.6		
	30	2.2	1.8	1.6	1.3	1.0	0.7		
	40	2.4	2.1	1.8	1.4	1.1	0.8	0.5	
	60	2.7	2.3	2.0	1.6	1.2	0.9	0.6	
25	25	2.3	1.9	1.7	1.3	1.0	0.8	0.5	
	30	2.5	2.1	1.8	1.4	1.1	0.8	0.6	
	40	2.8	2.4	2.1	1.6	1.2	0.9	0.6	
	60	3.2	2.7	2.4	1.9	1.4	1.1	0.7	
	80	3.5	2.9	2.5	2.0	1.5	1.2	0.8	0.5
30	30	2.7	2.3	2.0	1.6	1.2	0.9	0.6	
	40	3.1	2.6	2.3	1.8	1.4	1.0	0.7	
	60	3.6	3.1	2.7	2.1	1.6	1.2	0.8	0.5
	80	4.0	3.4	2.9	2.3	1.7	1.3	0.9	0.5
40	40	3.6	3.1	2.7	2.1	1.6	1.2	0.5	0.5
	60	4.4	3.7	3.2	2.5	1.9	1.5	1.0	0.6
	80	4.9	4.1	3.6	2.8	2.1	1.6	1.1	0.7
	100	5+	4.4	3.8	3.0	2.3	1.7	1.2	0.7
60	60	5+	4.6	4.0	3.2	2.4	1.8	1.2	0.7
	80	5+	5+	4.6	3.6	2.7	2.1	1.4	0.9
	100	5+	5+	5.0	4.0	3.0	2.3	1.5	0.9
	120	5+	5+	5+	4.2	3.2	2.4	1.6	1.0
80	80	5+	5+	5+	4.2	3.2	2.4	1.6	1.0
	140	5+	5+	5+	5+	4.1	3.1	2.1	1.3
	200	5+	5+	5+	5+	4.6	3.5	2.3	1.4
100	100	5+	5+	5+	5+	4.0	3.0	2.0	1.2
	150	5+	5+	5+	5+	4.8	3.6	2.5	1.5
	200	5+	5+	5+	5+	5+	4.0	2.7	1.7
120	120	5+	5+	5+	5+	4.8	3.6	2.5	1.5
	160	5+	5+	5+	5+	5+	4.2	2.8	1.7
	200	5+	5+	5+	5+	5+	4.5	3.1	1.9
Room Width (feet)	Room Length (feet)	10½	12	13½	16½	21	27	39	63
		SEMI-INDIRECT AND INDIRECT LIGHTING Ceiling Height above Floor (feet)							

VISUAL INDEX

INCANDESCENT

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Illustrated throughout this Virden Commercial Lighting Catalog are suggested ideas for the blending of fluorescent and incandescent fixtures. The even numbered pages show incandescent, pendant and surface fixtures with an LC prefix. The odd numbered pages in most cases, show fluorescent commercial and industrial fixtures with an LD prefix. Recessed squares, three sizes are identified by a V prefix.

FLUORESCENT

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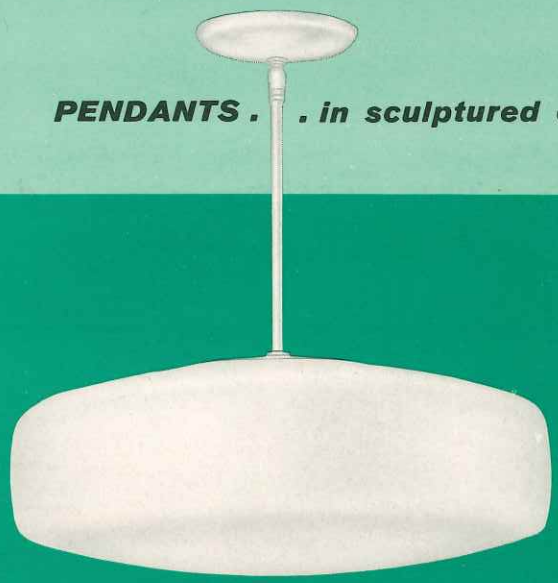
A VIRDEN CATALOG OF INCANDESCENT AND FLUORESCENT LIGHTING BLENDED FOR COMMERCIAL INSTALLATIONS

PENDANTS . . . in sculptured opal



WHITE OPAL GLASS—THE UNMISTAKABLE MARK OF GOOD TASTE

LC-1897 — White Opal Globe. 14" x 14". Satin White Canopy and 30" Sectional Stem. Overall length 47". Capacity 200-300 watt.

LC-1886 — White Opal Globe. 12" x 12"., Satin White Canopy and 3-Conductor Cord. Overall length 62". Capacity 150-200 watt.

LC-1887 — Same as above with 30" sectional stem. Overall length 44".

LC-1876 — White Opal Globe. 10" x 10". Satin White Canopy and 3-Conductor Cord. Overall length 60". Capacity 100-150 watt.

LC-1877 — Same as above with 30" sectional stem. Overall length 42".

LC-1990 — White Opal Globe. 16" x 7" deep. Satin White Swivel Canopy and 30" sectional stem. Overall length 39". Capacity 3-75 watt.

LC-1866 — White Opal Cylinder. 14" long, 5⅜" diameter. Satin White Canopy, White Plastic 3-Conductor Cord. Overall length 63". Capacity 1-150 watt or less.

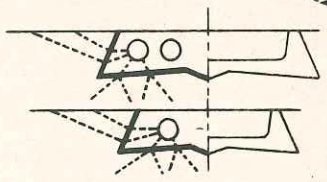
COMMERCIAL
FLUORESCENT
INCANDESCENT

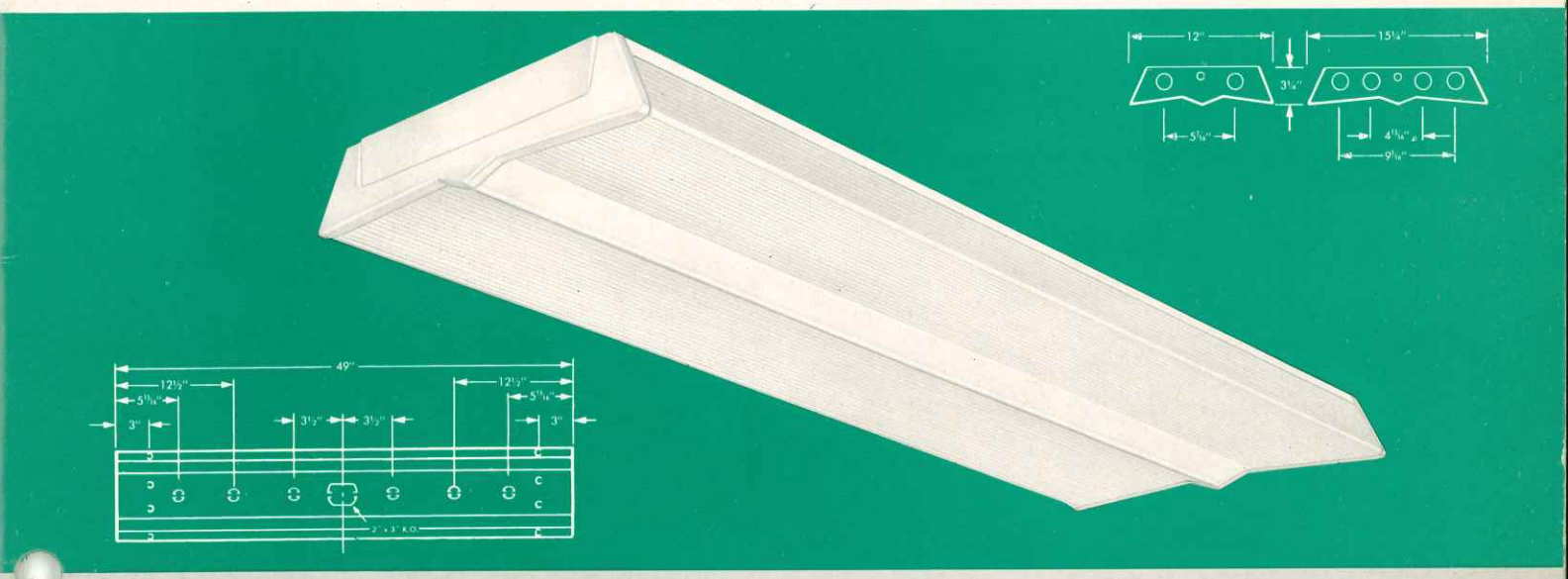
WRAP AROUND DIFFUSER

RAPID START 2-4 LAMPS

4 FT. LENGTH. 12″ AND 15¼″ WIDTHS

ONE PIECE WRAP AROUND DIFFUSER DESIGNED FOR LOW BRIGHTNESS. EASY TO INSTALL — EASY TO MAINTAIN





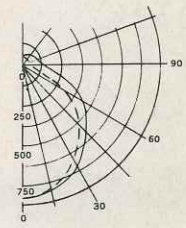
Fixture	Lamps	Type	Length	Width	Depth	Diffuser
LD-4725	2	40W RS	49″	12″	3¼″	Medium Impact Light Stable Styrene
LD-4745	4	40W RS	49″	15¼″	3¼″	Medium Impact Light Stable Styrene

Can be mounted in continuous row.
Safety chain hinges, can be attached on either side of unit.
Ballasts HPF-UL is standard.

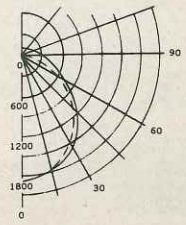
High bake white enamel end caps.
White translucent plastic diffusers, guaranteed for 50,000 hours against discoloration. Only 3″ deep. Diffuser is held in place with tension springs. Safety chains will hold diffuser to fixture when relamping. V shaped ballast cover is easy to remove for access to ballast and wiring.

Lamps	Efficiency	Room Ratio	COEFFICIENTS Rc 80% Rf 30% Rw 50%	Rw 30%
2	18	0.6 (J)	.21	.17
	↑	0.8 (I)	.27	.23
		1.0 (H)	.32	.27
		1.25 (G)	.37	.32
	55.6%	1.5 (F)	.41	.36
		2.0 (E)	.47	.42
		2.5 (D)	.51	.46
		3.0 (C)	.54	.49
	↓	4.0 (B)	.58	.54
	82	5.0 (A)	.62	.58
4	18	0.6 (J)	.22	.18
	↑	0.8 (I)	.28	.24
		1.0 (H)	.34	.29
		1.25 (G)	.39	.34
		1.5 (F)	.43	.38
	53.2%	2.0 (E)	.49	.43
		2.5 (D)	.53	.48
		3.0 (C)	.56	.52
	↓	4.0 (B)	.60	.56
	82	5.0 (A)	.63	.60

2 LAMP



4 LAMP



DECORATIVE pendants . . . . . .

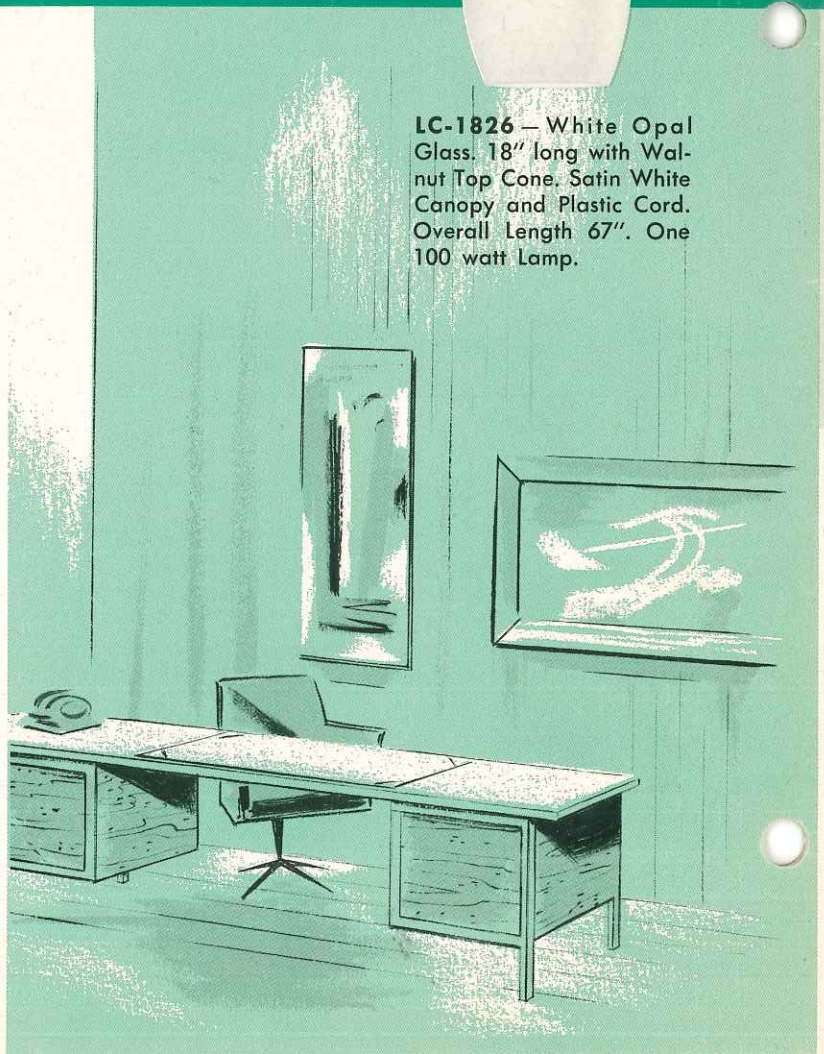
walnut wood trim accenting the modern shapes mounted from white pendants.

LC-1900 — Ceramic in Eggshell White 21" long. Walnut Top—Satin White Canopy and Sectional Stem. Overall Length 51". One 100 watt Lamp.

LC-1864 — Walnut Slats over White Opal Glass. 14" long, 6½" Diameter. Bottom is open. Satin White Canopy. White Plastic Cord. Overall Length 63". One 150 watt Lamp.

LC-1905 — Ceramic Accented with Alternating Circles of Brown, Light Brown and Eggshell. 15" long with Walnut Top. Sectional Satin White Stem. Overall Length 45". One 100 watt Lamp.

LC-1826 — White Opal Glass. 18" long with Walnut Top Cone. Satin White Canopy and Plastic Cord. Overall Length 67". One 100 watt Lamp.

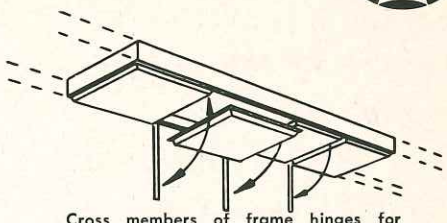


RECTANGULAR MODULES

RAPID START / SLIMLINE 2-4 LAMPS

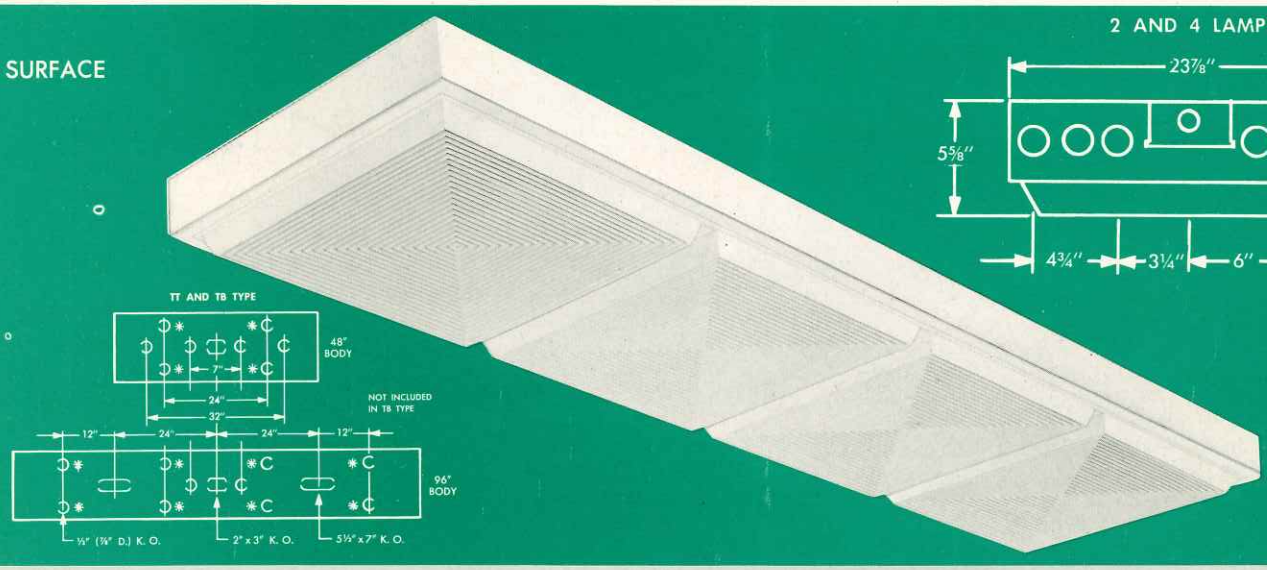
4-8 FT. LENGTHS 2 FT. WIDTH

RIGID STEEL, MINIMUM 20 GAUGE, BONDERIZED AND FINISHED IN WHITE ENAMEL CHANNEL FABRICATED WITH KNOCKOUTS FOR WIRING CONTINUOUS ROW.

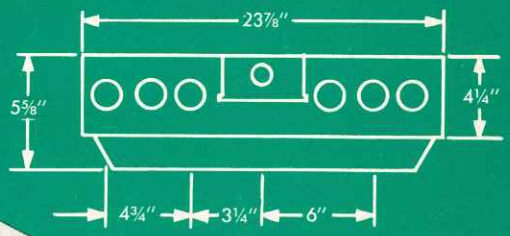


Cross members of frame hinges for easy removal of lamps and diffusers

SURFACE



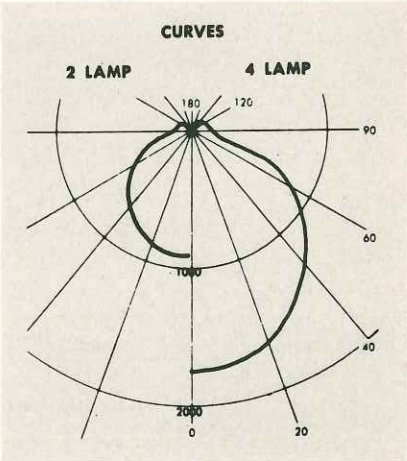
2 AND 4 LAMPS



Fixture	Lamps	Type	Length	Width	Depth	Diffuser
LD-14001	2	F40/Rapid Start	48"	23⅞"	5⅝"	Med. Impact Vinyl
LD-14002	4	F40/Rapid Start	48"	23⅞"	5⅝ "	Med. Impact Vinyl
LD-14003	2	F96T12/Slimline	96"	23⅞"	5⅝"	Med. Impact Vinyl
LD-14005	4	F96T12/Slimline	96"	23⅞"	5⅝"	Med. Impact Vinyl

DESCRIPTION—A shallow, totally enclosed fixture with multi-purpose uses. Noted for low brightness. Diffuser is light-stable Polyvinyl. Even distribution over the large diffuser surfaces produces uniform brightness and exceptional visual comfort.

	EFFICIENCY	COEFFICIENTS			BRIGHTNESS (Candles per sq. in.)	
LAMPS		Surface Mounted				
		Room Index	Rc 80% Rf 30% Rw 50%	Rw 30%	Angle	C	L
2	2.4%	0.6 (J)	.24	.20	0°	1.1	—
		0.8 (I)	.31	.26			
		1.0 (H)	.36	.31	45°	1.0	1.0
		1.25 (G)	.41	.35			
	57.9%	1.5 (F)	.45	.39	60°	1.0	1.0
		2.0 (E)	.50	.45			
		2.5 (D)	.54	.49			
		3.0 (C)	.57	.53	70°	.8	.8
		4.0 (B)	.62	.57			
	97.6%	5.0 (A)	.64	.60	90°	.9	—
4	2.2%	0.6 (J)	.23	.19	0°	2.0	—
		0.8 (I)	.29	.25			
		1.0 (H)	.35	.29	45°	1.9	1.9
		1.25 (G)	.39	.33			
	54.9%	1.5 (F)	.43	.38	60°	1.8	1.8
		2.0 (E)	.48	.43			
		2.5 (D)	.52	.46			
		3.0 (C)	.54	.50	70°	1.6	1.6
		4.0 (B)	.58	.54			
	97.8%	5.0 (A)	.61	.58	90°	1.6	—



LC-1845 — White Opal Glass 11" x 12". No Striping. White Plastic Cord. Overall Length 59". Satin White Trim. Watt Capacity 1-150W.

LC-1846 — White Opal Glass 11" x 12". Mist Gray Stripes. White Plastic Cord. Overall Length 59". Satin White Trim. Watt Capacity 1-150W.

LC-1856 — White Opal Glass. Dia. 13¾" x 12". Mist Gray Stripes. White Plastic Cord. Overall Length 61". Satin White Trim. Watt Capacity 1-150W.

STRIPED OPAL PENDANTS

. . . sophisticated decorative accents

OPEN BOTTOM ACCENTS DOWN LIGHTING

LC-1821 — Sand Rose Stripes
LC-1822 — Tawny Beige Stripes
LC-1823 — Charcoal Stripes
LC-1824 — Satin White (No Stripe)

Diffuser is 12" x 9¾" White Opal, Striping as indicated. Finish Satin White. Length 61". White Plastic 3 Conductor Cord. One 150W.

LC-1811 — Sand Rose Stripes
LC-1812 — Tawny Beige Stripes
LC-1813 — Charcoal Stripes
LC-1814 — Satin White (No Stripe)

Diffuser is 9" x 8" White Opal, Stripping as indicated. Finish Satin White. Length 58". White Plastic 3 Conductor Cord. One 100W.

COMMERCIAL
FLUORESCENT
INCANDESCENT

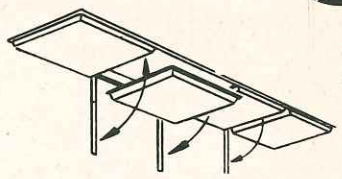
TROFFERS 24″ WIDE

RAPID START/SLIMLINE

2-4 LAMPS—4-8 FT. LENGTHS

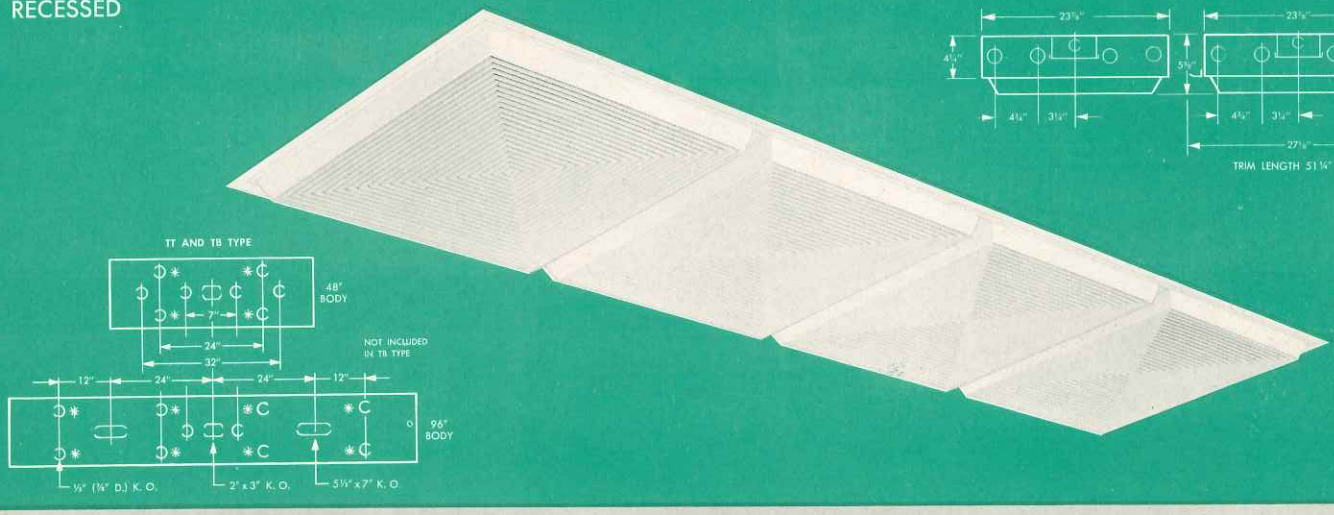
LIGHT STABLE VINYL DIFFUSER

PROVIDES SOFT EFFECTIVE ILLUMINATION.
FINISH HI-BAKE WHITE ENAMEL.



Cross members of frame hinges for easy removal of lamps and diffusers

RECESSED



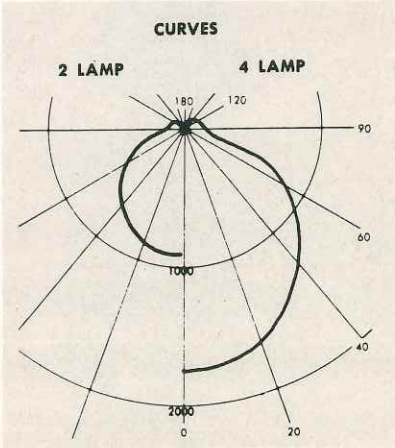
Catalog No.	No. Lamps	Lamp Type	Length (Housing Only)	Width (Housing Only)	Depth	Diffuser	Type Fixture
LD-55501	2	F40/Rapid Start	48″	23⅞″	5⅝	Med. Imp. Vinyl	Trim Type
LD-55502	4	F40/Rapid Start	48″	23⅞″	5⅝	Med. Imp. Vinyl	Trim Type
LD-55503	2	F96T12/Slimline	96″	23⅞″	5⅝	Med. Imp. Vinyl	Trim Type
LD-55504	4	F96T12/Slimline	96″	23⅞″	5⅝	Med. Imp. Vinyl	Trim Type
LD-55505	2	F40/Rapid Start	48″	23⅝″	6⅝	Med. Imp. Vinyl	T-Bar Inv.
LD-55506	4	F40/Rapid Start	48″	23⅝″	6⅝	Med. Imp. Vinyl	T-Bar Inv.
LD-55507	2	F96T12/Slimline	96″	23⅝″	6⅝	Med. Imp. Vinyl	T-Bar Inv.
LD-55508	4	F96T12/Slimline	96″	23⅝″	6⅝	Med. Imp. Vinyl	T-Bar Inv.

CONSTRUCTION — Cold rolled steel, minimum 20 gauge. All metal parts bonderized and finished in white baked enamel. Trim Type available for plaster and accoustical ceilings on wood or steel furring, Tee-Bar Type for integrated ceiling panel and suspension systems. Knockouts suited to both types provided.

ACCESSORIES — Available accessories include:

LD-55590 — 2′ x 4′ Plaster Frame (Individual)
LD-55591 — 2′ x 8′ Plaster Frame (Individual)
LD-55596 — Yoke (Pair)
LD-55592 — 2′ x 4′ Plaster Frame (Continuous)
LD-55593 — 2′ x 4′ Plaster Frame (Continuous)
LD-55594 — Plaster Frame Ends (Pair)

	EFFICIENCY		COEFFICIENTS		BRIGHTNESS (Candles per sq. in.)		
LAMPS		Room Index	Rc 80% Rf 30% Rw 50%	Rw 30%	Angle	C	L
2	2.4%	0.6 (J)	.24	.20	0°	1.1	—
		0.8 (I)	.31	.26			
		1.0 (H)	.36	.31	45°	1.0	1.0
		1.25(G)	.41	.35			
	57.9%	1.5 (F)	.45	.39	60°	1.0	1.0
		2.0 (E)	.50	.45			
		2.5 (D)	.54	.49			
		3.0 (C)	.57	.53	70°	.8	.8
		4.0 (B)	.62	.57			
	97.6%	5.0 (A)	.64	.60	90°	.9	—
4	2.2%	0.6 (J)	.23	.19	0°	2.0	—
		0.8 (I)	.29	.25			
		1.0 (H)	.35	.29	45°	1.9	1.9
		1.25(G)	.39	.33			
	54.9%	1.5 (F)	.43	.38	60°		
		2.0 (E)	.48	.43		1.8	1.8
		2.5 (D)	.52	.46			
		3.0 (C)	.54	.50	70°	1.6	1.6
		4.0 (B)	.58	.54			
	97.8%	5.0 (A)	.61	.58	90°	1.6	—



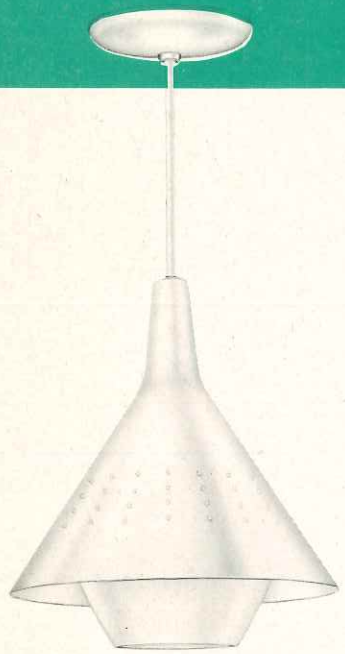
LC-4466 — Slotted Satin Aluminum Diffuser covers 16" Satin Opal Glass, 4¾" deep. Watt Capacity 3-60W.

LC-4461 — Same as above. 12" Diffuser, 4¾" deep. Watt Capacity 2-60W.

HANDSOME AND VERSATILE: SOPHISTICATION IN GLASS AND ALUMINUM FOR THE DISTINCTIVE CEILING

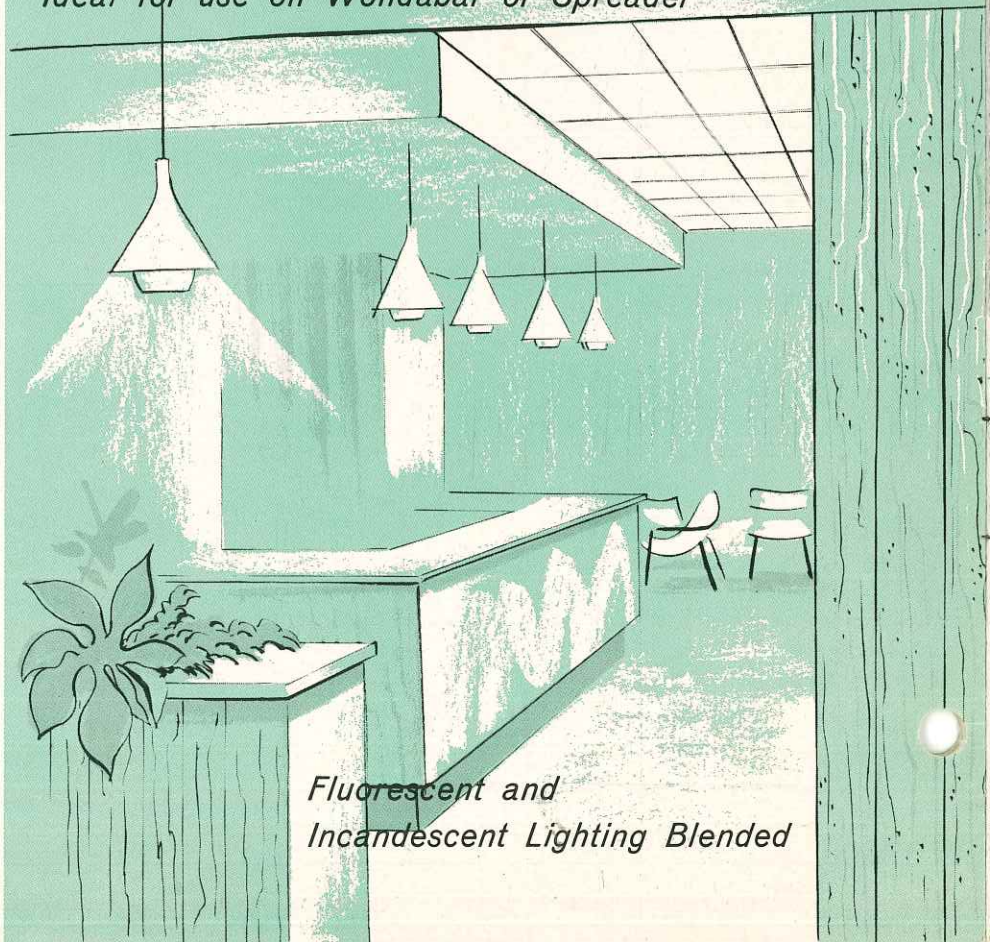
LC-1906 — Ceramic in Eggshell White and Brown. Accented with round holes and walnut trim. Width 9", height 15". 3 Conductor Cord. Overall length 60". Capacity 1-100W.

LC-1873 with Lens Bottom. Natural Dove Gray and White. Diameter 20". 3 Conductor Cord. Length 60". Watt Capacity 1-150W.



PENDANTS for Accent Lighting

Ideal for use on Wondabar or Spreader



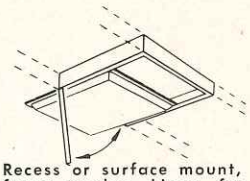
LC-1836 — White with Red
LC-1837 — White with Yellow
LC-1838 — White with Turquoise

Pierced metal cone in Satin White (inside color listed above). White opal open bottom diffuser. Diameter 10½". Depth 12". Satin White Canopy. White Plastic 3 Conductor Cord drop 58". Watt Capacity 1-100W.

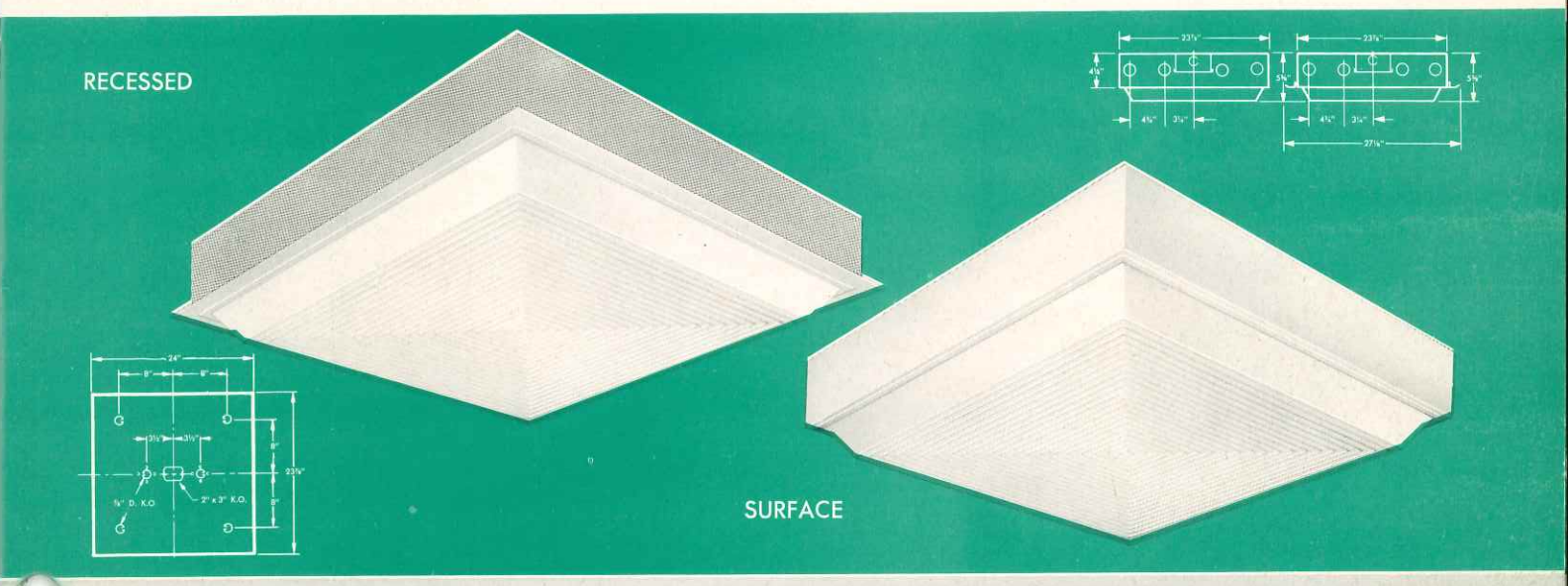
SQUARE MODULES

4 LAMP FLUORESCENT 2 FT. SQ.
RECESSED AND SURFACE MOUNTED

LIGHT STABLE VINYL DIFFUSER
PROVIDES SOFT EFFECTIVE ILLUMINATION.
FINISH HI-BAKE WHITE ENAMEL.



Recess or surface mount, frame member, hinges for easy removal of lamps and diffuser

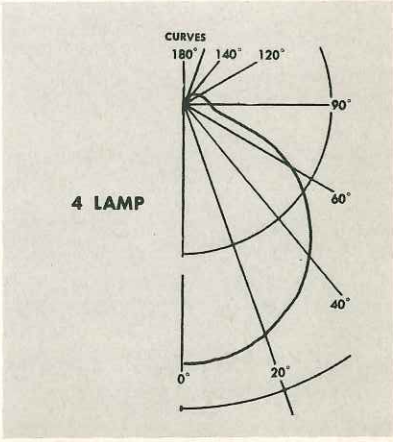


SURFACE MOUNTED					
Fixture	**Lamps**	**Type**	**Housing Size**	**Depth**	**Diffuser**
LD-14020	4	F20T12/QS	23⅞ x 24	4¼	Dropped Vinyl
RECESSED					
LD-55520	4	F20T12/QS	23⅞ x 24	5⅝	Dropped Vinyl

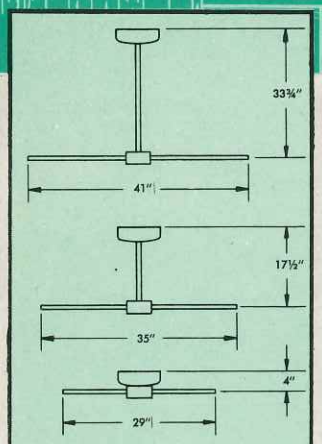
Matching fixtures to those on pages 7 and 9, 2′ x 2′ squares that can be used to complete continuous row installations. Can also be used individually in small areas where extra light is necessary.

Accessories Available
LD-55595 — Plastic Frame
LD-55596 — Yoke

EFFICIENCY			COEFFICIENTS		BRIGHTNESS (Candles Per Sq. Inch.)		
LAMPS		**Room Index**	**Rc 80% Rf 30% Rw 50%**	**Rw 30%**	**Angle**	**C**	**L**
	2.2%	0.6 (J)	.23	.19	0°	2.0	—
		0.8 (I)	.29	.25			
		1.0 (H)	.35	.29	45°	1.9	1.9
		1.25 (G)	.39	.33			
4	54.9%	1.5 (F)	.43	.38	60°	1.8	1.8
		2.0 (E)	.48	.43			
		2.5 (D)	.52	.46			
		3.0 (C)	.54	.50	70°	1.6	1.6
		4.0 (B)	.58	.54			
	97.8%	5.0 (A)	.61	.58	90°	1.6	—

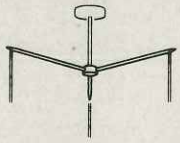


New Improved WONDABAR KITS

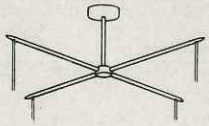


3 DEPTHS AVAILABLE IN EACH KIT.

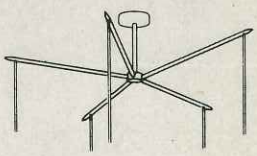
WONDABAR — SATIN DOVE GRAY FINISH. Here is your opportunity to create beautiful and functional custom lighting installations. Available in 3-4 or 5 arm arrangements. Stems provide for 4", 17½" or 33" lengths. Swivel in canopy permits installing on canted ceilings to 45° maximum.



LC-1983 — 3 light 29" arm spread.



LC-1984 — 4 light 35" arm spread.



LC-1985 — 5 light 41" arm spread.

LC-1876
LC-1886
Page 4

LC-1866
Page 4

LC-1864
Page 6

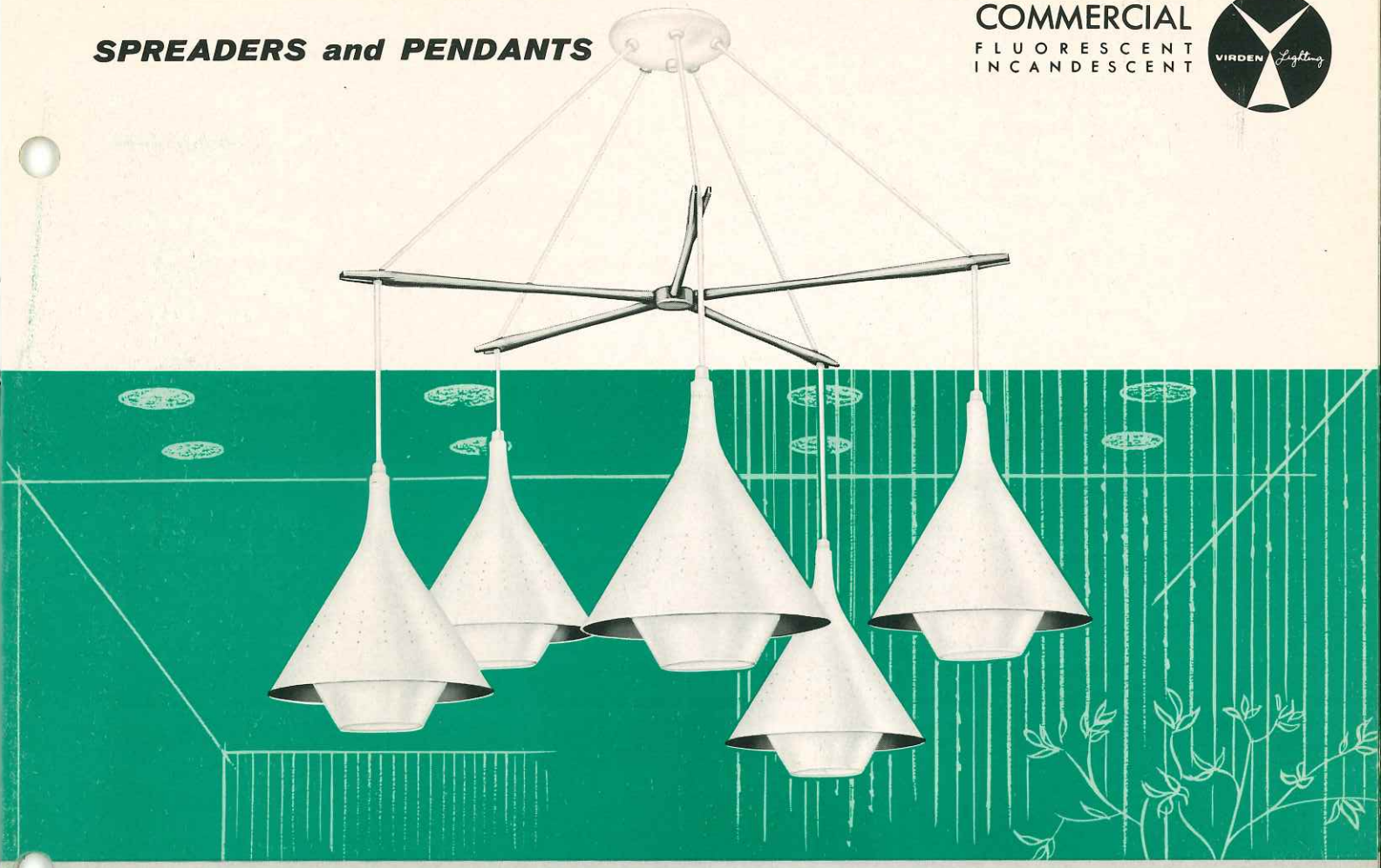
LC-1900
With Stem (Wondabar only)
Page 6

LC-1905
With Stem (Wondabar only)
Page 6

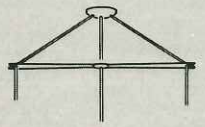
LC-1826
Page 6

LC-1856
Page 8

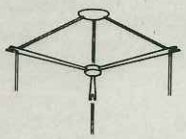
SPREADERS and PENDANTS



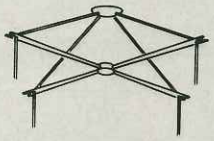
SPREADER KITS: — SATIN WHITE CANOPY WITH WALNUT WOOD ARMS. Your choice of 3-4-5 arm clusters or 3 in line. Make your fixture selection from the fine variety illustrated on these pages.



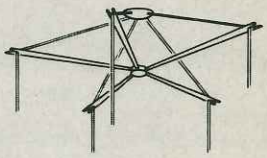
LC-1910 — 3 in line. 28" spread. 14" spacing between cords.



LC-1913 — 3 light. 15" diameter. 7½" from center to cord.



LC-1914 — 4 light. 21" diameter. 10½" from center to cord.



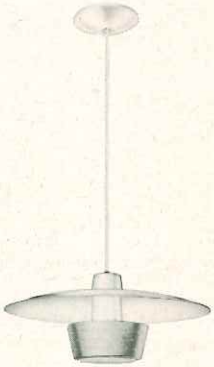
LC-1915 — 5 light. 27" diameter. 13½" from center to cord.

LC-1845
Page 8

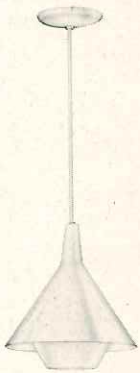
LC-1846
Page 8

LC-1811-12-13-14
LC-1821-22-23-24
Page 8

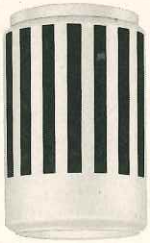
LC-1906
Page 10



LC-1873
Page 10



LC-1836-37-38
Page 10



LC-5051 — Sand Rose Stripes

LC-5052 — Tawny Beige Stripes

LC-5053 — Charcoal Stripes

LC-5054 — Satin White (No Stripes)

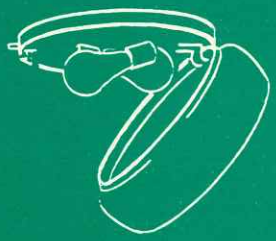
FESTIVE CEILING CYLINDERS

Satin white holders. Gay, attractive, functional, white opal glass with ceramic stripes as indicated. An excellent selection in many applications. Diameter 5", Depth 7½". 1-100W Lamp.

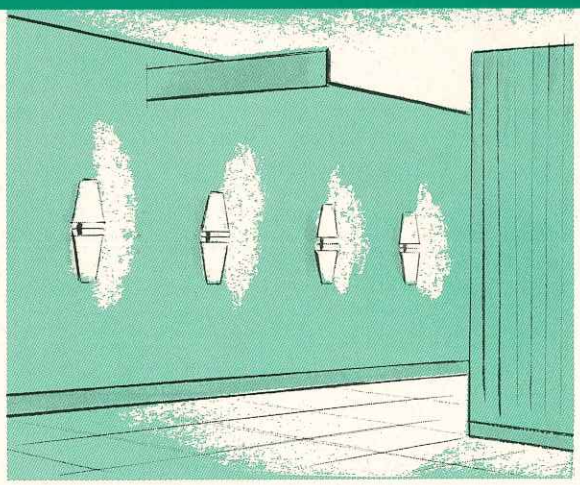
LC-4010 — Opal glass diffuser. Diameter 14", Depth 6¼", has easy opening push latch and hidden hinge. Three 75W Lamps.

LC-4005 — Same as above, but Diameter 12", Depth 5½". Three 60W Lamps.

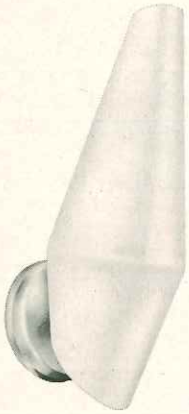
LC-4000 — Same as above, but Diameter 10", Depth 5¼". Two 60W Lamps.



WHITE OPAL CEILING DRUMS. HIDDEN PUSH LATCH FOR EASY RE-LAMPING.



UNIQUELY STYLED WALL BRACKETS



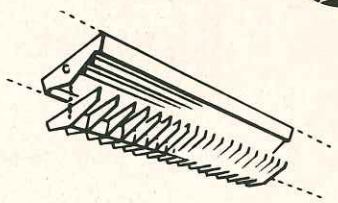
LC-6400 — An intriguing contemporary style, with opal glass diffuser and satin aluminum backplate. Length 14", Extends 6", Diameter 5". 1-100W.

LC-6405 — Use as a ceiling or wall fixture, mount horizontal or vertical, opal glass diffusers. Cast aluminum has satin finish. Length 16", Extends 6", Diameter 4¾". Two 100W.

METAL LOUVERS, METAL SIDES

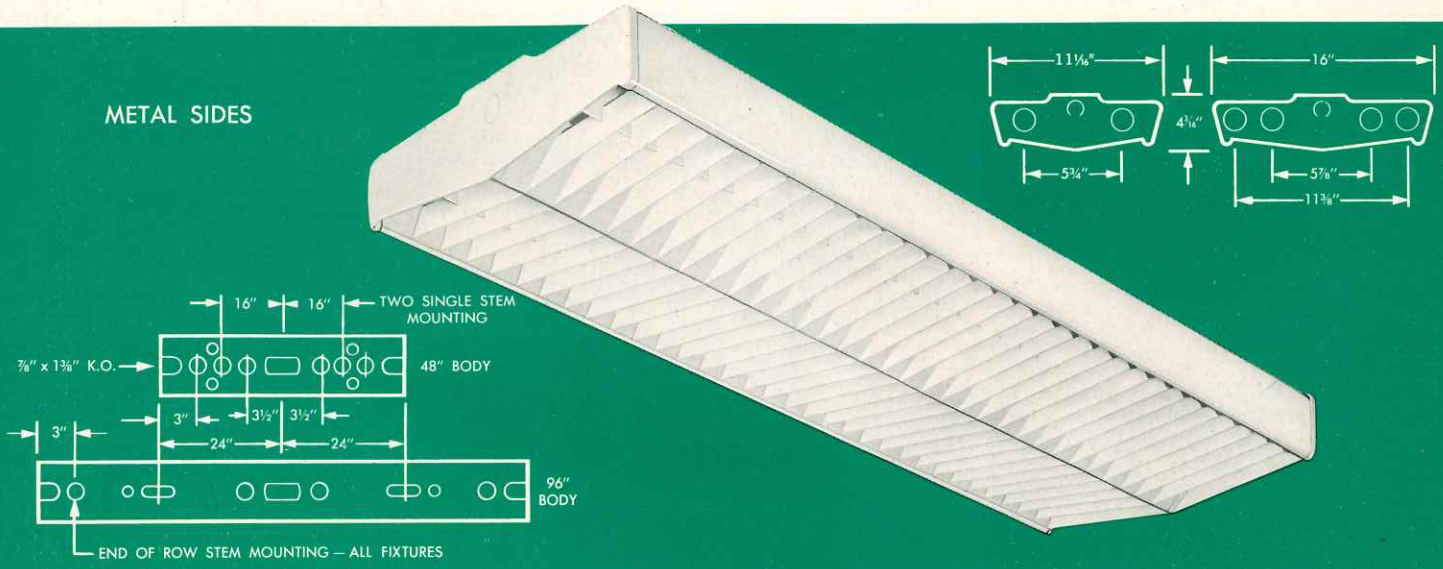
RAPID START—SLIMLINE—2-4 LAMPS
4-8 FT. LENGTHS 35° x 35° AND 45° x 45° SHIELDING

CONSTRUCTION — Metal side panels permit greater downward component plus reduced side brightness. Die stamped 20 gauge steel. High efficiency and low maintenance combined with good shielding make this an excellent choice. Finish: Hi-bake white enamel.



For re-lamping shield is suspended on chain

METAL SIDES



35° SHIELDING

Fixture	Lamps	Type	Length	Width	Depth	
LD-16321	2	F40 Rapid Start	48 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides
LD-16323	4	F40 Rapid Start	49 1/16"	16"	4 3/16"	Metal baffle metal sides
LD-16325	2	F96 T12 Slimline	96 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides
LD-16327	4	F96 T12 Slimline	97 1/16"	16"	4 3/16"	Metal baffle metal sides
LD-16329	4	F40 Rapid start tandem	96 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides

45° SHIELDING

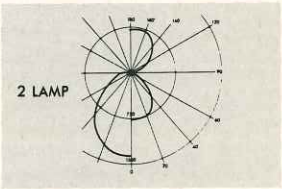
LD-16322	2	F40 Rapid Start	48 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides
LD-16324	4	F40 Rapid Start	49 1/16"	16"	4 3/16"	Metal baffle metal sides
LD-16326	2	F96 T12 Slimline	96 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides
LD-16328	4	F96 T12 Slimline	97 1/16"	16"	4 3/16"	Metal baffle metal sides
LD-16330	4	F40 Rapid start tandem	96 1/16"	11 1/16"	4 3/16"	Metal baffle metal sides

	EFFICIENCY			COEFFICIENTS PENDANT		COEFFICIENTS SURFACE		BRIGHTNESS (Candles per sq. in.)				
				Rc 80%	Rf 30%	Rc 80%	Rf 30%					
LAMPS	Surf.	Pend.	Room Index	Rw 50%	Rw 30%	Rw 50%	Rw 30%	Surf. Angle	C	L	Pend. C	L
	0.6%	53.8%	0.6 (J)	.30	.25	.27	.21	0°	5.4	—	5.9	—
			0.8 (I)	.37	.31	.31	.29					
			1.0 (H)	.42	.36	.42	.35	45°	3.8	2.2	4.2	1.7
			1.25 (G)	.44	.39	.50	.42					
2	58.7%	80.6%	1.5 (F)	.48	.43	.53	.45	60°	2.2	1.4	1.3	10
			2.0 (E)	.53	.48	.59	.52					
			2.5 (D)	.57	.52	.63	.56	70°	1.7	1.0	0.9	.08
			3.0 (C)	.58	.55	.67	.61					
			4.0 (B)	.62	.58	.73	.67					
	99.4%	46.2%	5.0 (A)	.63	.60	.76	.72	90°	0.1	—	0.4	—
	0.5%	58.7%	0.6 (J)	.28	.22	.26	.20	0°	5.5	—	5.0	—
			0.8 (I)	.32	.30	.36	.28					
			1.0 (H)	.43	.37	.43	.35	45°	4.6	3.3	3.5	2.2
			1.25 (G)	.51	.43	.48	.40					
4	60.9%	81.1%	1.5 (F)	.54	.46	.53	.44	60°	2.5	1.8	1.8	1.1
			2.0 (E)	.60	.53	.59	.51					
			2.5 (D)	.64	.57	.63	.57					
			3.0 (C)	.68	.62	.66	.60	70°	1.6	1.4	1.3	0.9
			4.0 (B)	.74	.68	.73	.67					
	99.5%	41.3%	5.0 (A)	.77	.73	.77	.72	90°	0.2	—	0.8	—

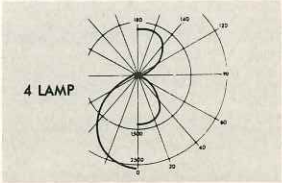
ACCESSORIES — Available accessories include:

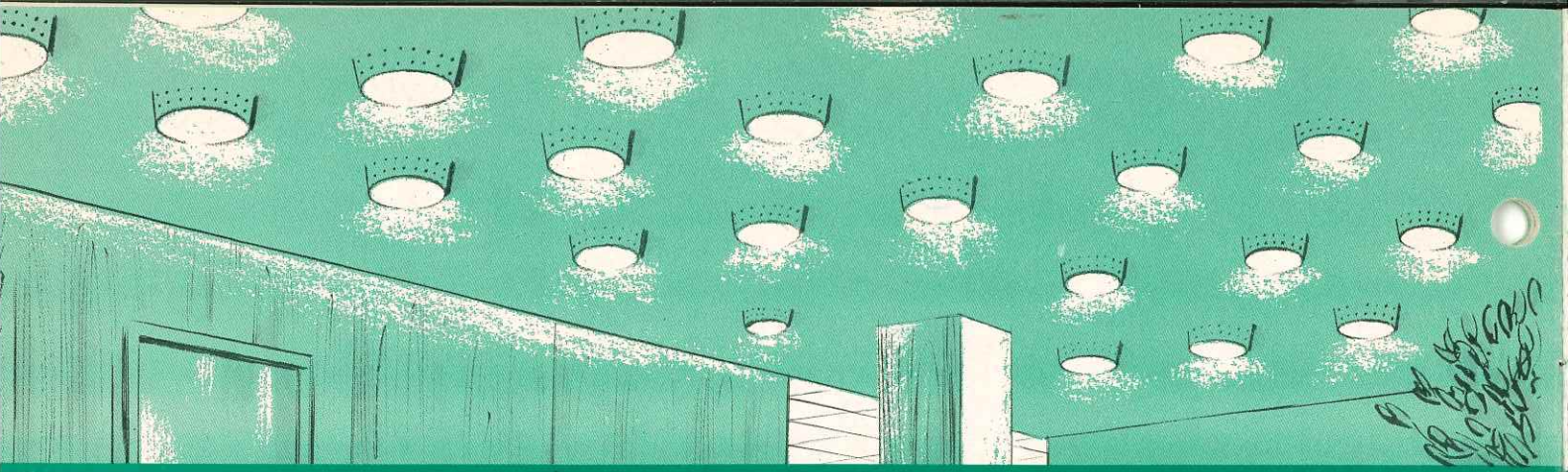
LD-9302 — 45° Swivel Stem (24")
LD-9303 — Double Stem Set (24")
LD-9304 — 1½" Drop Spacer
LD-9305 — "T" Clamp
LD-9306 — Fixed Bottom Stem Plate
LD-9307 — Swivel Bottom Stem Plate
LD-9309 — Fixed Bottom Connector for continuous row
LD-9310 — Swivel Bottom Connector for continuous row
LD-16391 — (Pr.) Top Plate for 2 lamp fixture 4' long (2 required for 8 units)
LD-16392 — (Pr.) Top Plate for 4 lamp fixture 4' long
LD-16393 — (2 Pr.) Top Plate for 4 lamp fixture 8' long

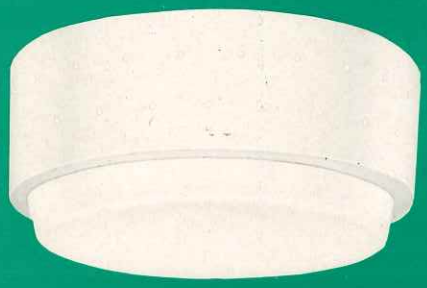
SURFACE MOUNT PENDANT MOUNT

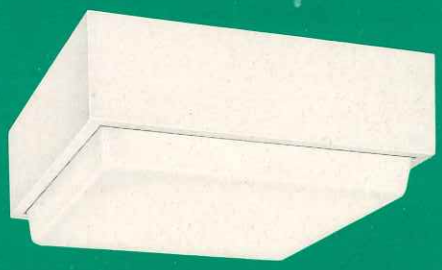


SURFACE MOUNT PENDANT MOUNT









ROUND FIXTURES, OPAL GLASS

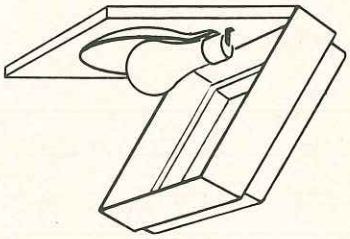
Fixture No.	Size	Finish	Watt Capacity
LC-4103	6x4½	Satin White	One 60W
LC-4113	8x4½	Satin White	One 100W
LC-4123	10x4½	Satin White	One 150 W
LC-4133	12¾x4½	Satin White	Three 60W

SQUARE FIXTURES, OPAL GLASS

Fixture No.	Size	Finish	Watt Capacity
LC-4183	8x4½	Satin White	One 100W
LC-4188	12x4½	Satin White	One 150W
LC-4193	16x4½	Satin White	Four 60W

Rounds and Squares also available in the following polished finishes: Brass, Copper and Aluminum.

The best all around general purpose fixture series available for general area illumination . . . These basic designs in square and round forms are available in a variety of lamp wattages; and finished in satin white all with drop molded opal glass diffusers. Decorative piercing in housing adds sparkle to squares and round shapes.

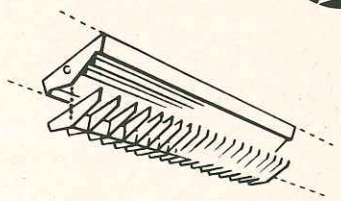


Square units hinge. Touch latch release for easy relamping.

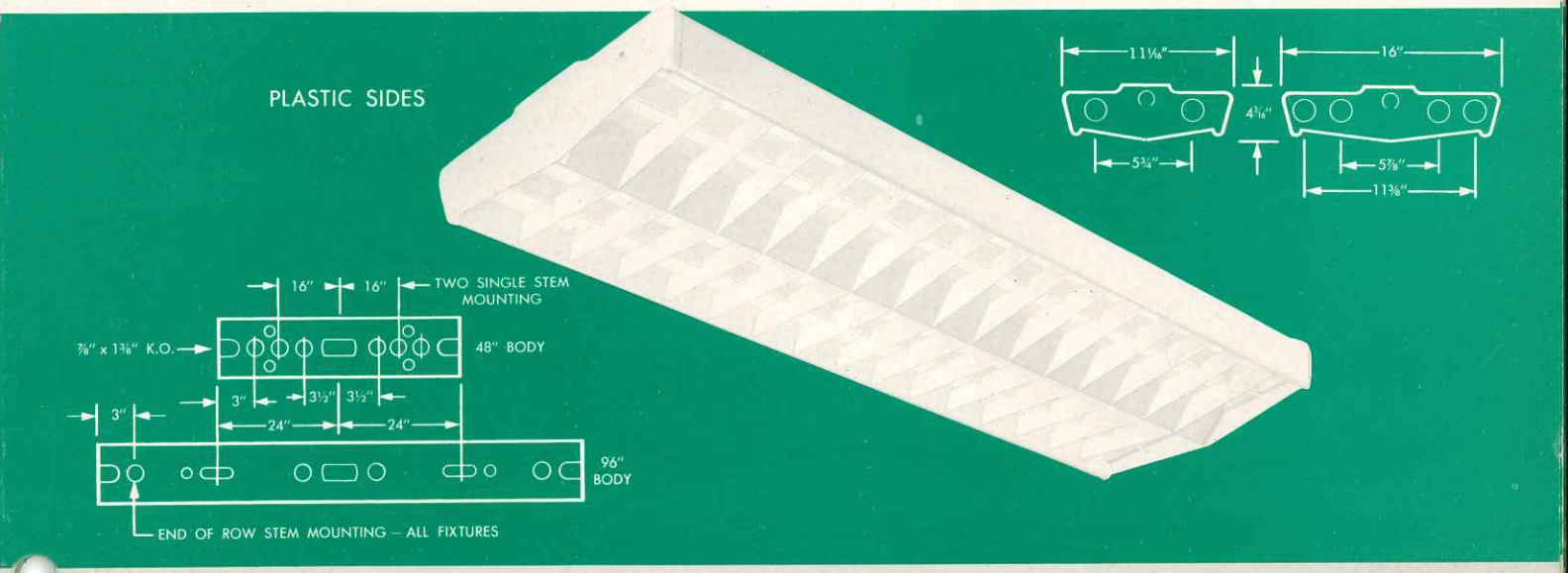
METAL LOUVERS, PLASTIC SIDES

RAPID START SLIMLINE 2-4 LAMPS
4-8 FT. LENGTHS
35° x 35° AND 45° x 45° SHIELDING

CONSTRUCTION — Steel, 20 guage minimum. Metal parts bonderized and finished in white baked enamel. Ends have knockouts permitting through wiring for continuous runs. Side panels made of light-stable polystyrene. Baffles are metal. Shielding is spring retained and chain-hung for relamping and cleaning. Finish: Hi-bake white enamel.



For re-lamping shield is suspended on chain



35° SHIELDING

Fixture	Lamps	Type	Length	Width	Depth	
LD-16301	2	F40 Rapid Start	48 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.
LD-16303	4	F40 Rapid Start	49 1/16"	16"	4 3/16"	Metal baffle plastic sds.
LD-16305	2	F96 T12 Slimline	96 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.
LD-16307	4	F96 T12 Slimline	97 1/16"	16"	4 3/16"	Metal baflfe plastic sds.
LD-16309	4	F40 Rapid start tandem	96 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.

45° SHIELDING

LD-16302	2	F40 Rapid Start	48 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.
LD-16304	4	F40 Rapid Start	49 1/16"	16"	4 3/16"	Metal baffle plastic sds.
LD-16306	2	F96 T12 Slimline	96 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.
LD-16308	4	F96 T12 Slimline	97 1/16"	16"	4 3/16"	Metal baffle plastic sds.
LD-16310	4	F40 Rapid start tandem	96 1/16"	11 1/16"	4 3/16"	Metal baffle plastic sds.

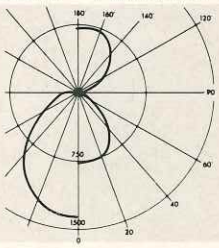
ACCESSORIES — Available accessories include:

LD-9302 — 45° Swivel Stem (24")
LD-9303 — Double Stem Set (24")
LD-9304 — 1½" Drop Spacer
LD-9305 — "T" Clamp
LD-9306 — Fixed Bottom Stem Plate
LD-9307 — Swivel Bottom Stem Plate
LD-9309 — Fixed Bottom Connector for continuous row
LD-9310 — Swivel Bottom Connector for continuous row
LD-16391 — (Pr.) Top Plate for 2 lamp fixture 4' long
LD-16392 — (Pr.) Top Plate for 4 lamp fixture 4' long
LD-16393 — (2 Pr.) Top Plate for 4 lamp fixture 8' long

	EFFICIENCY			COEFFICIENTS SURFACE		COEFFICIENTS PENDANT		BRIGHTNESS (Candles per sq. in.)				
				Rc 80%	Rf 30%	Rc 80%	Rf 30%					
LAMPS	Surf.	Pend.	Room Index	Rw 50%	Rw 30%	Rw 50%	Rw 30%	Surf. Angle	Surf. C	Surf. L	Pend. C	Pend. L
	4.5%	55%	0.6 (J)	.29	.24	.25	.20	0°	5.4	—	5.9	—
			0.8 (I)	.36	.31	.32	.26					
			1.0 (H)	.42	.36	.38	.32	45°	3.8	2.2	4.2	.7
			1.25 (G)	.48	.42	.45	.37					
2	65.1%	81.7%	1.5 (F)	.51	.46	.50	.43	60°	1.6	2.3	1.3	1.5
			2.0 (E)	.58	.51	.58	.50					
			2.5 (D)	.62	.55	.63	.56	70°	1.4	1.4	.9	1.1
			3.0 (C)	.64	.59	.67	.62					
			4.0 (B)	.68	.64	.73	.67					
	95.5%	45%	5.0 (A)	.71	.68	.77	.74	90°	2.2	—	1.1	—
	4.7%	55%	0.6 (J)	.27	.23	.23	.19	0°	5.5	—	5.0	—
			0.8 (I)	.34	.28	.29	.24					
			1.0 (H)	.39	.34	.36	.29	45°	4.9	3.7	4.2	3.0
			1.25 (G)	.45	.38	.41	.34					
4	59.2%	78.2%	1.5 (F)	.48	.43	.46	.40	60°	2.8	3.4	2.1	2.8
			2.0 (E)	.53	.48	.53	.47					
			2.5 (D)	.56	.52	.58	.53					
			3.0 (C)	.59	.55	.63	.59	70°	2.1	2.2	1.8	1.9
			4.0 (B)	.63	.59	.71	.66					
	95.3%	45%	5.0 (A)	.65	.62	.75	.70	90°	2.6	—	2.0	—

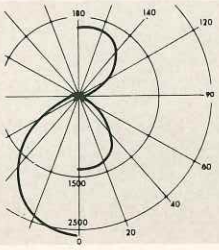
SURFACE MOUNT PENDANT MOUNT

2 LAMP



SURFACE MOUNT PENDANT MOUNT

4 LAMP



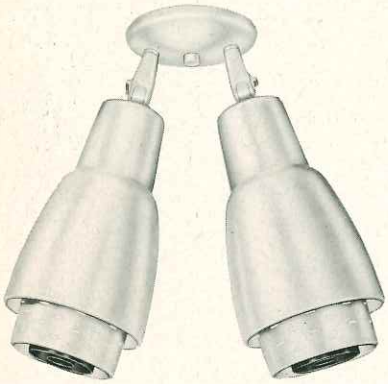
CEILING CYLINDERS

FINISH: SATIN WHITE.
SATIN WHITE CONCENTRIC RING LOUVERS FOR "A" TYPE LAMP OR 150W-R40 OR 75W-R30.

LC-6055 — Length 8¾". Diameter 6". One 150W-R40 Lamp.

LC-6050 — Length 7¾". Diameter 4⅝". One 75W-R30 Lamp.

BULLETS SWIVEL MOUNTING.
FINISH: SATIN ALUMINUM.
SATIN WHITE CONCENTRIC RING LOUVERS.



LC-6065 — Twin Bullets With End Mounted Swivels. Switch Knockout, in 5" Canopy. Length 10¾". Watt Capacity 2-150W-R40 Lamp.

LC-6060 — Single Bullet With End Mount Swivel. Canopy 5" W/Switch Knockout. Length 10¾". Watt Capacity 1-150W-R40 Lamp.

*FLUORESCENT STRIP 2 11/16"

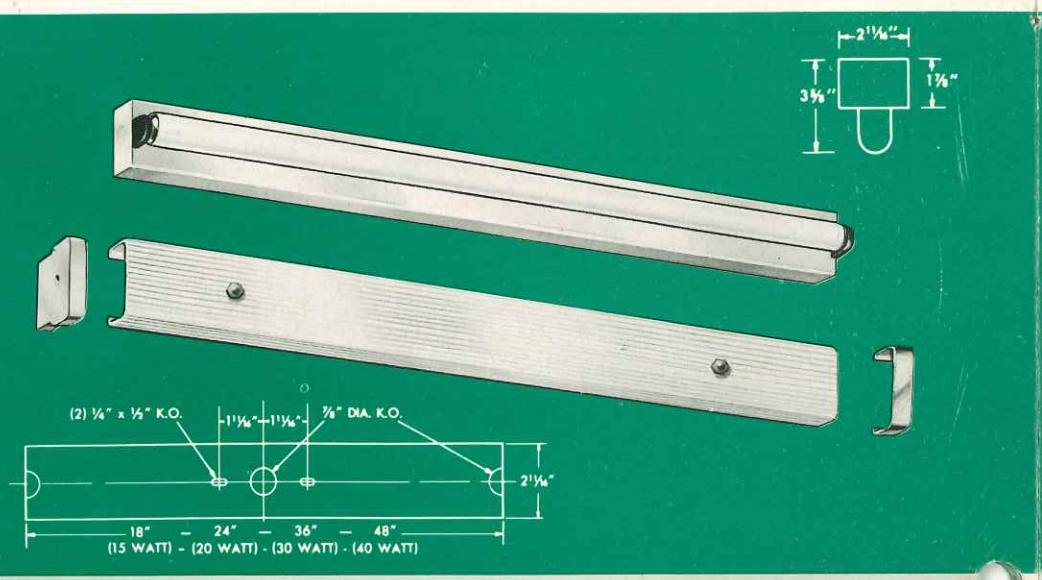
PREHEAT / QUICK START / RAPID START / DIMMER

15 - 20 - 30 - 40 WATTS

PLASTIC SHIELDS

RIBBED, SNAP ON, 18"-24"-36"-48"

*Patent Pending



Fixture	Lamps	Type	Length	Width	Depth	W/Lamps
LD-9115	1	15W Preheat LPF	18	2 11/16	3⅝	
LD-9117	1	15W Quick Start LPF	18	2 11/16	3⅝	
LD-9120	1	20W Preheat LPF	24	2 11/16	3⅝	
LD-9123	1	20W Quick Start LPF	24	2 11/16	3⅝	
LD-9125	2	20W Parallel Quick Start LPF	24	4¼	3⅝	
LD-9127	2	20W Parallel Preheat LPF	24	4¼	3⅝	
LD-9130	1	30W Preheat LPF	36	2 11/16	3⅝	
LD-9133	1	30W Rapid Start LPF	36	2 11/16	3⅝	
LD-9140	1	40W Preheat LPF	48	2 11/16	3⅝	
LD-9145	1	40W Rapid Start LPF	48	2 11/16	3⅝	
LD-9146	1	40W Rapid Start HPF	48	2 11/16	3⅝	
LD-9147	1	40W Dimmer Rapid Start LPF	48	2 11/16	3⅝	
LD-9148	1	40W Dimmer Rapid Start HPF	48	2 11/16	3⅝	
LD-9149 (89-G-920 Ballast)	1	40W Dimmer Rapid Start HPF	48	2 11/16	3⅝	
LD-9151	2	40W Tandem Preheat HPF	96	2 11/16	3⅝	
LD-9153	2	40W Tandem Rapid Start HPF	96	2 11/16	3⅝	

Catalog No.	Description
LD-9610	Plastic Shield for 15W Strip
LD-9612	Plastic Shield for 20W Strip
LD-9613	Plastic Shield for 30W Strip
LD-9614	Plastic Shield for 40W Strip
LD-9190	Chromium End Plate
LD-9191	Chromium Joiner

See page 19 for information and description of Valance Mounting Kits.

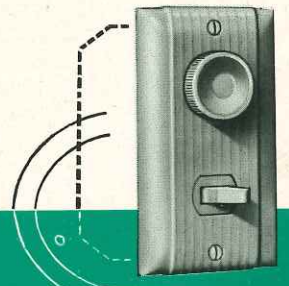
NEW (SCR) FLUORESCENT DIMMER

SILICON CONTROL RECTIFIER,

FITS STANDARD WALL SWITCH BOX SIZES.

HAS SILENT ON AND OFF SWITCH. DIMMER CONTROLS FROM 2 TO 9 40 WATT LAMPS AND IS INCLUDED WITH FIXTURE NO. LD-9160. COMPLETE, COMPACT AND CONVENIENT.

*Patent Pending



The dimmer control finished in attractive ivory. 4½" high, 2¾" wide. Has on and off switch and the intensity selector. Mounts on standard wall box.

Use Fixture Number **LD-9160** when ordering the control fixture.

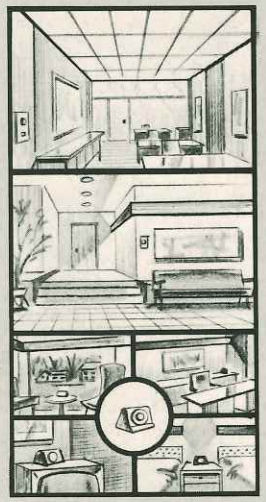
LD-9165 when ordering the additional 40 watt fixtures with dimmer ballasts only.

*	Fixture	Lamp	Type	Length	Width	Depth W/Lamp
	LD-9160	1	40RSLPF/SCR (Control Fixture)	48	2 11/16	3 5/8
	LD-9165	1	40RSLPF/Dimmer	48	2 11/16	3 5/8

LUMINOUS CEILING — install the Virden dimming system and have complete control of your lighting requirements.

VALANCE — COVE — CORNICE with mood lighting. So simple and accurate when you use Virden's new dimming system.

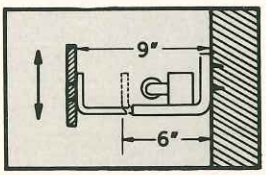
REMOTE CONTROL — Could be remotely mounted similar to telephone outlets. See your electrical distributor for complete information.

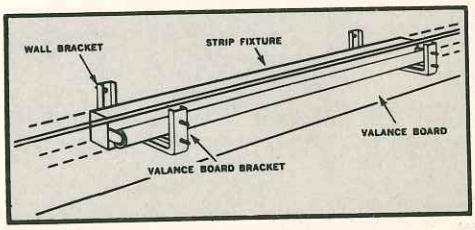


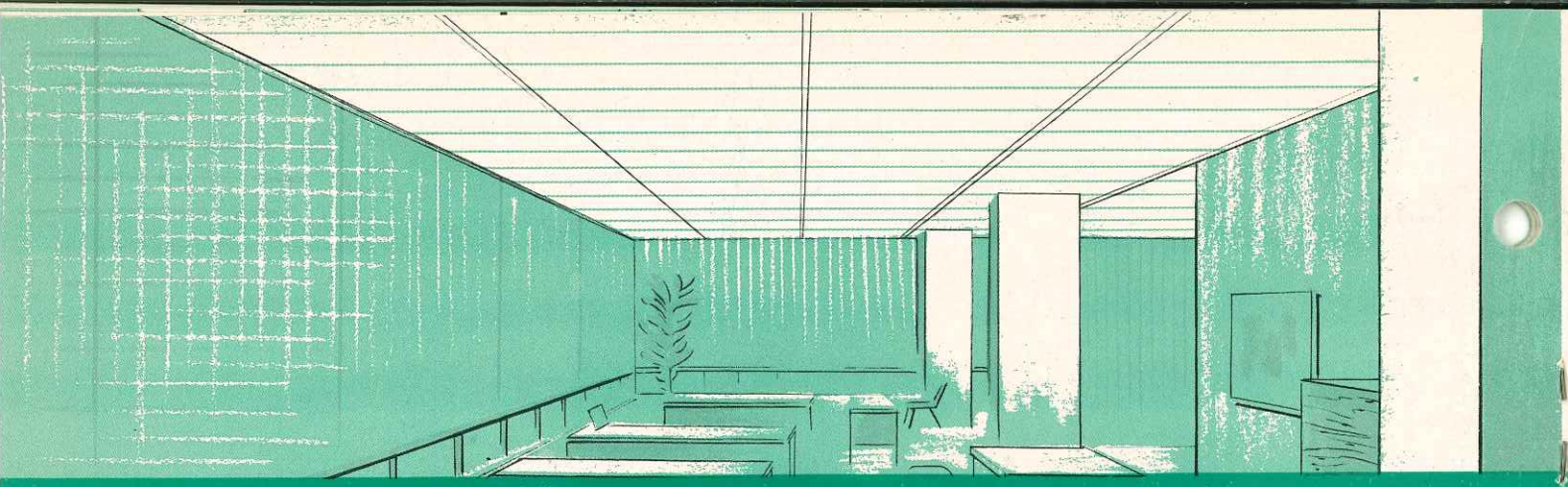
LD-9160 — (Control Fixture) contains the new G.E. auxiliary and a dimmer ballast. Included with LD-9160 is the dimmer control that guarantees positive starting at all levels of light. Eliminate the objectional striations. This is a wide range dimmer that provides a minimum dimming ratio of 300 to 1. Has a built in radio interference filter. The unit operates at low power factor. Controls from 2 to 9 40 watt rapid start lamps. This complete system when properly installed, carries a 2 year G.E. Guarantee.

VIRDEN VALANCE BRACKET KIT FOR 2 11/16" STRIP

LD-9192 (Pr.) Adjustable Valance Mounting Kit.

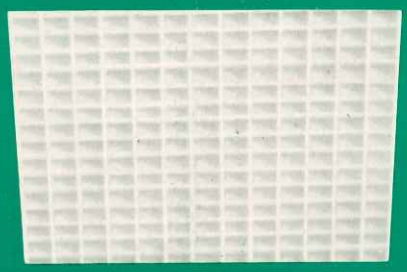






CIRCLE GRID

V-8890 — size 2′ x 2′
V-8897 — size 2′ x 4′
Light stable white vinyl diffuser. ½″ open circular cells. 45° shielding.



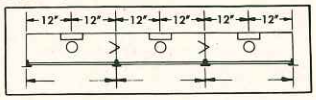
CUBED LOUVER

V-8891 — size 2′ x 2′
V-8898 — size 2′ x 4′
Light stable white polystyrene. Diffuser ⅜″ open square cells 55° shielding.

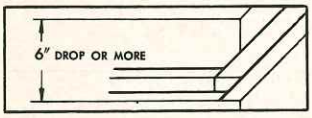
POLARIZED

V-8896 — size 2′ x 2′
V-8899 — size 2′ x 4′
Translucent fiberglass panel. Light is polarized to reduce excessive glare.

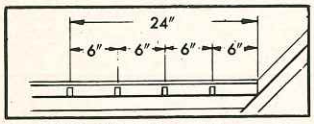
1. INSTALLATION OF FIXTURES
(a) For absolute minimum requirements, one 40 Watt Fluorescent lamp is recommended for every 8 square feet of luminous ceiling.
(b) For maximum reduction in contrast between bright and dark areas, fixtures should be mounted on centers of every 2 foot module. For maximum reflection of light, finish the ceiling with semi-gloss white paint.



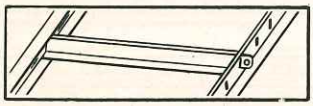
2. WALL CHANNELS F-545—10 FT. LONG. For 8 ft. or less ceiling height use a 7″ minimum drop luminous ceiling. For higher ceilings a greater drop from the ceiling can be used. Strike a chalk line on the walls around the entire perimeter of the room or desired drop from the ceiling.

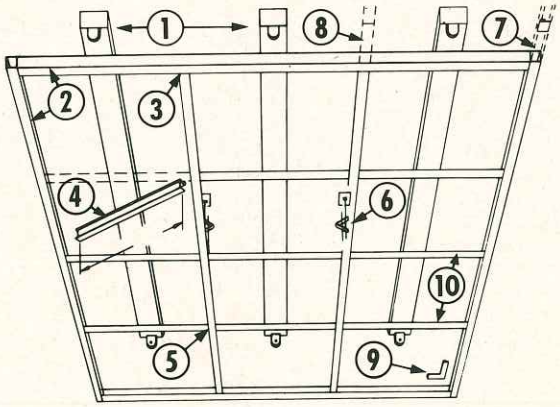


3. MAIN TEE F-543—10 FT. LONG. Cut main tee ¼″ shorter than required wall to wall dimension.
Caution:
(a) First end cut must be made in relation to the cross tee slots in the main tee. It is imperative that this cut be properly spaced and trimmed since the balance of the grid module is dependent on the first cut.

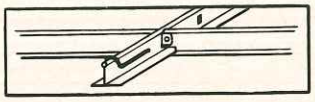


4. CROSS TEE F-542. All cross tees resting in the wall channel must be cut to desired lengths.
(a) If the first main tee is 24″ from the wall, cut cross tees accordingly, allowing ¼″ clearance.
(b) If main tee is less than 24″ from wall, cut cross tees accordingly, allowing ¼″ clearance.

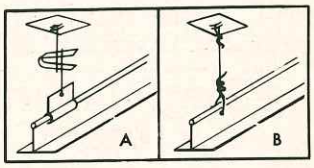




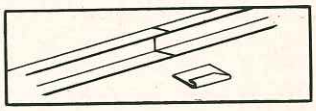
5. INTERSECTION CLIP F-544. All cross tees are locked into main tee with intersection clip as shown.



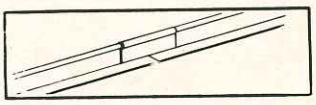
6. GRID SUPPORT ASSEMBLY V-8888. Assemble and install grid support as shown. One support is sufficient for each main tee, located approximately on centers of the main tee lengths. Where ceiling distance to grid is greater than 9″. Specify desired length.



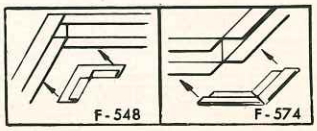
7. WALL CHANNEL CONNECTOR F-546. When necessary to join wall channels, snap connector in place as shown.



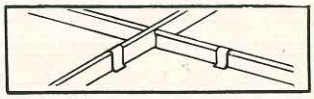
8. MAIN TEE CONNECTOR F-547. When necessary to join main tees, snap joiner on bead of both main tees. Allow joiner tabs to enter slot in each tee. Bend tabs slightly.



9. CORNER CAP F-548 INNER—F-547 OUTER. Snaps over wall channels to conceal all misalignment. Set all modular diffusers into place. All off module diffusers must be cut to size as required. Flat diffusers only are recommended to be cut with pistol grip hacksaw, bandsaw, etc. Drop diffusers are primarily used only for modular layouts.



10. HOLD DOWN CLIP F-580, ⅛″ Panel V-8878-79 V-8886-87-88-96-99; F-580-1, ½″ Panel V-8890-91-92-97-98. Used where air currents cause diffusers to rattle or raise. Use 2 per panel on opposite sides.

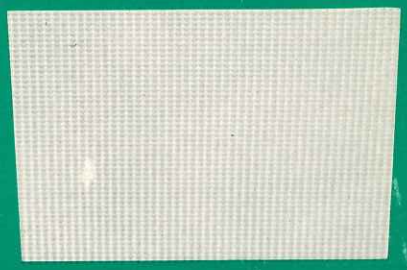


ILLUMINATED CEILINGS

A COMPLETE SELECTION OF NEW AND DIFFERENT DIFFUSERS IN 2′ x 2′ AND 2′ x 4′ SIZES

HONEYLITE
V-8886 — size 2′ x 2′
V-8887 — size 2′ x 4′
Transparent light stable styrene. Hexagonal designs for low brightness.

STRIALITE
V-8878 — size 2′ x 2′
V-8879 — size 2′ x 4′
Light stable white translucent polystyrene one side serrated to increase diffusion.



PRISMATIC
V-8892 — size 2′ x 2′
V-8893 — size 2′ x 4′
Light stable styrene prisms scientifically designed for maximum low brightness.

ILLUSTRATION	NUMBER	DESCRIPTION
	F-545	WALL CHANNEL 10 ft.
	F-543	MAIN TEE 10 ft.
	F-542	CROSS TEE 2 ft.
	F-544	INTERSECTION CLIP
	V-8888	GRID SUPPORT
	F-546	CHANNEL CONNECTOR
	F-547	MAIN TEE CONNECTOR
	F-580	HOLD-DOWN CLIP ⅛″
	F-580-1	HOLD-DOWN CLIP ½″
	F-548	CORNER CAP (INNER)
	F-574	CORNER CAP (OUTER)

The following Luminous Ceiling kits are available (grid only):

V-8875 for 48 square foot ceilings or less
V-8880 for 120 square foot ceilings or less
V-8885 for 192 square foot ceilings or less

Panels are available in 10 different styles and designs, in 2 foot widths and 2 or 4 foot lengths. Strip is shown on pages 18 and 19 including the completely new Virden SCR dimmer unit (made by General Electric).

An all-over shadowless luminous installation is easy to achieve with this new light improvement system. The three luminous ceiling kits offered are designed for areas of from 48 sq. feet or less to 192 sq. feet.

Installing a Virden illuminated ceiling on any ceiling area is a simple three step operation.

Step 1. Mount Virden strips to the ceiling.

Step 2. Attach the suspension grid system to the ceiling and walls. Instructions are included with each kit.

Step 3. Place the diffusers of your choice in the assembled grid. Make your selection from the diffusers illustrated above.

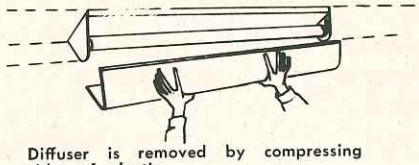
CORRIDOR LIGHTING

SINGLE OR TANDEM

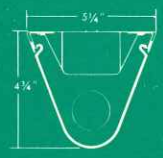
1 LIGHT/RAPID START

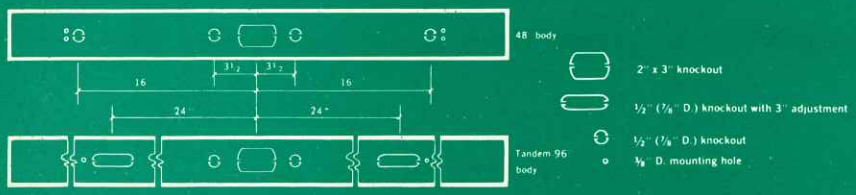
4-8 FT. LENGTHS, SURFACE MOUNTED

FOR CORRIDORS — ENTRANCES — OVER MIRRORS



Diffuser is removed by compressing sides of plastic





Fixture	Lamps	Type	Lgth.	Width	Depth	Diffuser
LD-41801	1	F40/Rapid Start	48"	5¼"	4¾"	Light-stable Extr. Polystyrene
LD-41802	2	F40/Rapid Start Tandem	96"	5¼"	4¾"	Light-stable Extr. Polystyrene

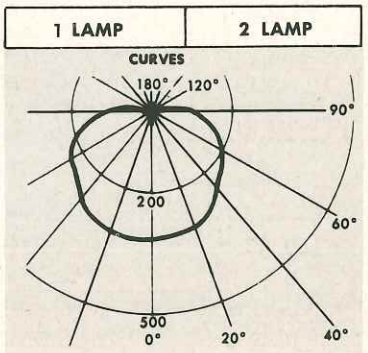
ACCESSORIES — Available accessories

LD-9304 — 1½" Drop Spacer

LD-9305 — "T" Clamp

LD-41890 — Continuous Row Joiner

EFFICIENCY	COEFFICIENTS			BRIGHTNESS		
	Room Index	Rc 80% Rf 30% Rw 50%	Rw 30%	Angle	Surface C	L
13.5%	0.6 (J)	.22	.17	0°	1.7	—
↑	0.8 (I)	.28	.23			
	1.0 (H)	.34	.27	45°	1.7	1.7
	1.25 (G)	.39	.35			
	1.5 (F)	.43	.36			
62.4%	2.0 (E)	.49	.42	60°	1.7	1.6
↓	2.5 (D)	.53	.46			
	3.0 (C)	.56	.50	70°	1.7	1.5
	4.0 (B)	.60	.56			
86.5%	5.0 (A)	.64	.60	90°	1.7	—



DESCRIPTION — Perfect and complimentary fixture for general lighting of long, narrow areas. Available in single or tandem Rapid Start. 5¼" wide, 4¾" deep. Surface mounting.

CONSTRUCTION — Rigid steel, minimum 20 gauge. Metal parts bonderized and finished with white baked enamel. Channel ends permit through wiring for continuous runs. Diffusers made in 4' sections from extruded light-stable polystyrene.

COMMERCIAL
FLUORESCENT
INCANDESCENT

STRIP / CROSS SECTION 3⅝″

SLIMLINE/HIGH OUTPUT/PG., VHO, SHO

4-6-8-16 FT. LENGTHS

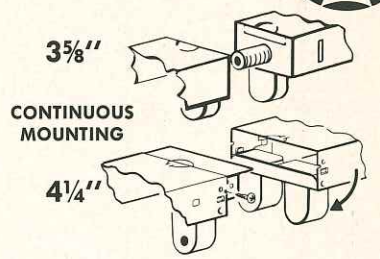
*STRIP / CROSS SECTION 4¼″

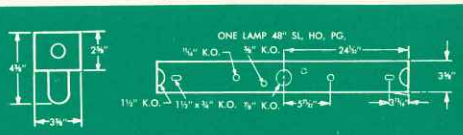
SLIMLINE/RAPID START 4-6-8-16 FT. LENGTHS

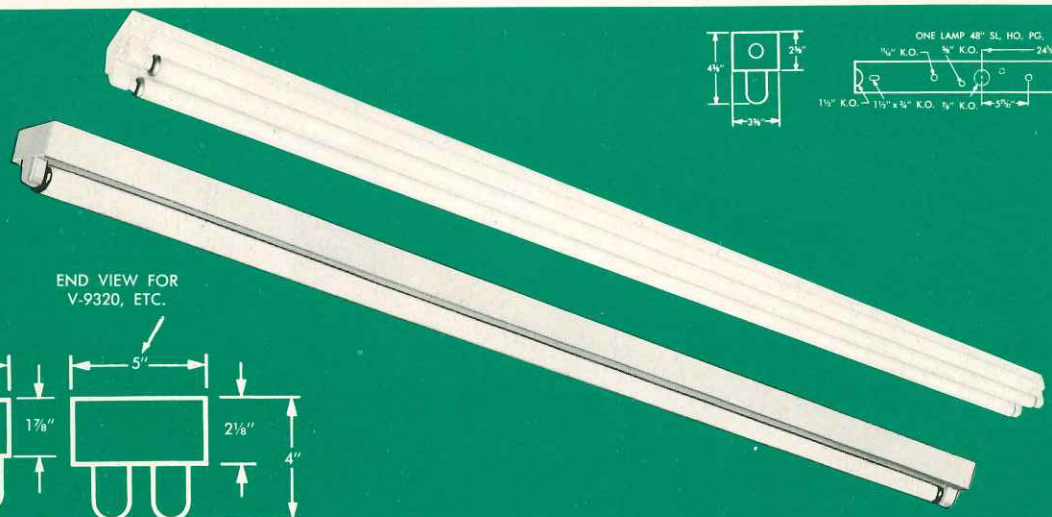
STRIP / CROSS SECTION 5″

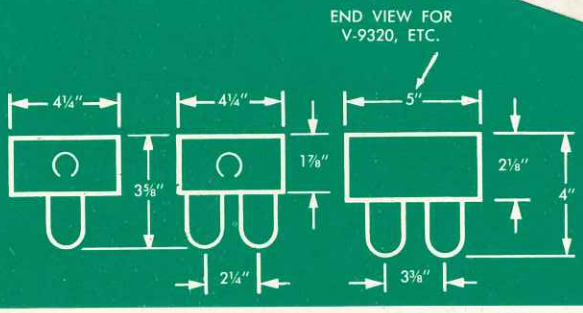
SLIMLINE 4-6-8 FT. LENGTHS

*Patent Pending









3⅜″

Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9314	1	F48T12/Slimline	48 1/16″	3⅝″	4⅜″
LD-9316	1	F72T12/Slimline	72″	3⅝″	4⅜″
LD-9318	1	F96T12/Slimline	96″	3⅝″	4⅜″
LD-9319	2	F96T12/Slimline/Tandem	192″	3⅝″	4⅜″
LD-9414	1	F48T12/High Output/800MA	48 1/16″	3⅝″	4⅜″
LD-9416	1	F72T12/High Output/800MA	72″	3⅝″	4⅜″
LD-9418	1	F96T12/High Output/800MA	96″	3⅝″	4⅜″
LD-9419	2	F96T12/High Output/Tandem	192″	3⅝″	4⅜″
LD-9514	1	F48/PG, VHO, SHO	48 1/16″	3⅝″	4⅜″
LD-9516	1	F72/PG, VHO, SHO	72″	3⅝″	4⅜″
LD-9518	1	F96/PG, VHO, SHO	96″	3⅝″	4⅜″
LD-9519	2	F96/PG, VHO, SHO	192″	3⅝″	4⅜″

*Patent No. 2,930,459

ACCESSORIES — Available accessories include:

LD-9290 — 24″ Single Stem Pendant (⅜″)

LD-9291 — 24″ Twin Stem Pendant (⅜″)

LD-9292 — 12″ Extension Stem

LD-9293 — Extension Coupling

LD-10390 — Sliding Hanger Brkt.

LD-9294 — Joiner for Continuous Rows

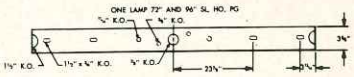
LD-9296 — Outlet Box Cover

LD-9301 — 1½″ Ceiling Spacer

LD-9302 — 45° Swivel Stem Pendant (24″)

LD-9305 — "T" Clamp

CONSTRUCTION — Made of cold-rolled steel, minimum 20 gauge. Metal parts bonderized and finished in white baked enamel. Sockets tombstone type. Channel ends permit through wiring for continuous runs. Ample knockouts provided for surface, single or double-stem mounting.



4¼″

Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9354	1	F48T12/Slimline	48″	4¼″	3¾″
LD-9356	1	F72T12/Slimline	72″	4¼″	3¾″
LD-9358	1	F96T12/Slimline	96″	4¼″	3¾″
LD-9360	2	F96T12/Slimline/Tandem	192″	4¼″	3¾″
LD-9362	2	F40/Rapid Start	48″	4¼″	3¾″
LD-9364	2	F48T12/Slimline	48″	4¼″	3¾″
LD-9366	2	F72T12/Slimline	72″	4¼″	3¾″
LD-9368	2	F96T12/Slimline	96″	4¼″	3¾″

ACCESSORIES — Available accessories include:

LD-9290 — 24″ Single Stem Pendant (⅜″)

LD-9292 — 12″ Extension Stem

LD-9293 — Extension Coupling

LD-9302 — 45° Swivel Stem Pendant (24″)

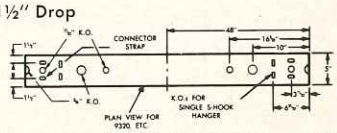
LD-9304 — 1½″ Drop Spacer

LD-9305 — "T" Clamp

LD-9308 — 45° Bottom Swivel

LD-10490 — Sliding Hanger Bracket

LD-10498 — Joiner for Continuous Row



5″

Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9320	2	F96T12/Slimline	96″	5″	4″
LD-9322	2	F48T12/Slimline	48″	5″	4″
LD-9323	2	F72T12/Slimline	72″	5″	4″

*Patent No. 2,934,184

BALLAST — Standard is HPF-UL for all except LD-9354 which is HPF-CBM. For variations and special applications, see price sheet.

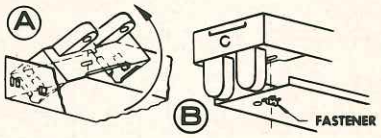
*STRIP/CROSS SECTION 6¾″

RAPID START/SLIMLINE/HIGH OUTPUT

4-6-8 FT. LENGTHS 2-3 LAMPS

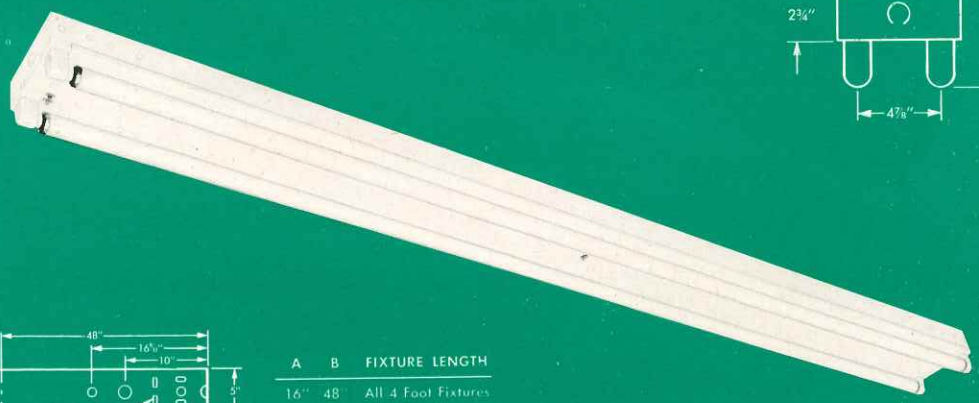
GENERAL PURPOSE ILLUMINATION

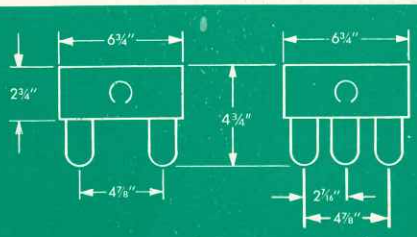
(A) **END-CAP POSITION**—Swings up and snaps into body

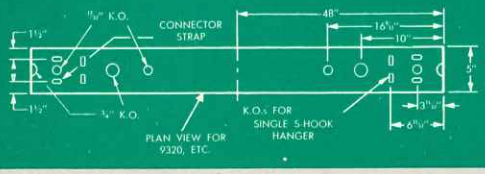


(B) **COVER FASTENER**—¼ turn attaches or releases cover

*Patent Pending







A	B	FIXTURE LENGTH
16″	48″	All 4 Foot Fixtures
24″	72″	All 6 Foot Fixtures
24″	96″	All 8 Foot Fixtures

Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9370	2	F40/Rapid Start	48″	6¾″	4¾″
LD-9371	2	F48T12/Slimline	48″	6¾″	4¾″
LD-9372	2	F72T12/Slimline	72″	6¾″	4¾″
LD-9373	2	F96T12/Slimline	96″	6¾″	4¾″
LD-9374	2	F48T12/High Output	48″	6¾″	4¾″
LD-9375	2	F72T12/High Output	72″	6¾″	4¾″
LD-9376	2	F96T12/High Output	96″	6¾″	4¾″
LD-9377	3	F40/Rapid Start	48″	6¾″	4¾″
LD-9378	3	F48T12/Slimline	48″	6¾″	4¾″
LD-9379	3	F72T12/Slimline	72″	6¾″	4¾″
LD-9380	3	F96T12/Slimline	96″	6¾″	4¾″
LD-9381	3	F48T12/High Output	48″	6¾″	4¾″
LD-9382	3	F72T12/High Output	72″	6¾″	4¾″
LD-9383	3	F96T12/High Output	96″	6¾″	4¾″

ACCESSORIES — Available accessories include:

LD-9290 — 24″ Rigid Stem (⅜″)

LD-9292 — 12″ Extension Stem

LD-9293 — Extension Coupling

LD-9302 — 45° Swivel Single Stem (24″)

LD-9304 — 1½″ Drop Spacer

LD-9305 — "T" Clamp

LD-9308 — 45° Bottom Swivel

LD-10498 — Continuous Row Joiner

CONSTRUCTION — Channel made of cold-rolled steel, 20 gauge minimum. All metal parts bonderized and finished in white baked enamel. Tombstone type sockets. Channel ends permit through wiring for continuous runs. Ample knockouts provided for surface or stem mounting. Simplified locking device and joiner couplings sharply reduce assembly time.

INSTALLATION — All units wired and ready for installation. Can be hung singly, or continuous row . . . surface or pendant mounting. Complete line of accessories available. See below.

BALLAST — Standard is HPF-UL, 120 volts. For variations and special applications, see price sheet.

*STRIP/CROSS SECTION 8½″

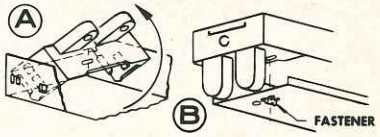
RAPID START/SLIMLINE/HIGH OUTPUT

4-6-8 FT. LENGTHS 3-4 LAMPS

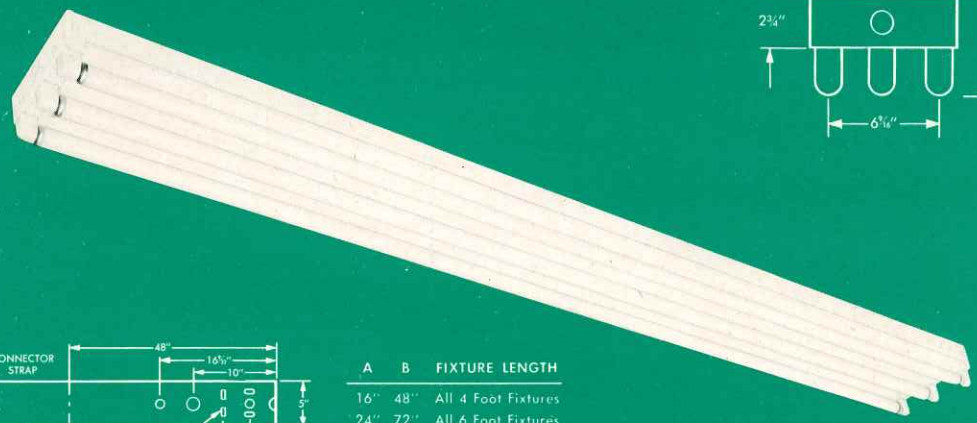
EXCELLENT FOR GENERAL ILLUMINATION

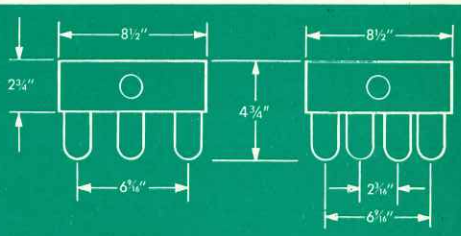
*Patent Pending

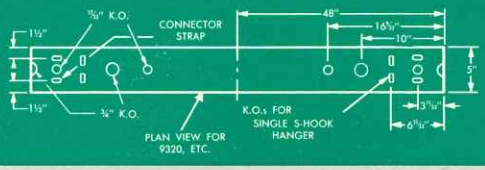
(A) END-CAP POSITION—Swings up and snaps into body



(B) COVER FASTENER—¼ turn attaches or releases cover







A	B	FIXTURE LENGTH
16″	48″	All 4 Foot Fixtures
24″	72″	All 6 Foot Fixtures
24″	96″	All 8 Foot Fixtures

Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9386	3	F40/Rapid Start	48″	8½″	4¾″
LD-9387	3	F48T12/Slimline	48″	8½″	4¾″
LD-9388	3	F72T12/Slimline	72″	8½″	4¾″
LD-9389	3	F96T12/Slimline	96″	8½″	4¾″
LD-9390	3	F48T12/High Output	48″	8½″	4¾″
LD-9391	3	F72T12/High Output	72″	8½″	4¾″
LD-9392	3	F96T12/High Output	96″	8½″	4¾″
LD-9393	4	F40/Rapid Start	48″	8½″	4¾″
LD-9394	4	F48T12/Slimline	48″	8½″	4¾″
LD-9395	4	F72T12/Slimline	72″	8½″	4¾″
LD-9396	4	F96T12/Slimline	96″	8½″	4¾″
LD-9397	4	F48T12/High Output	48″	8½″	4¾″
LD-9398	4	F72T12/High Output	72″	8½″	4¾″
LD-9399	4	F96T12/High Output	96″	8½″	4¾″

ACCESSORIES — Available accessories include:

LD-9290 — 24″ Rigid Stem (⅜″)
LD-9292 — 12″ Extension Stem
LD-9293 — Extension Coupling
LD-9302 — 45° Swivel Single Stem (24″)
LD-9304 — 1½″ Drop Spacer
LD-9305 — "T" Clamp
LD-9308 — 45° Bottom Swivel
LD-10498 — Continuous Row Joiner

DESCRIPTION — A complete line of 3 and 4 lamp Slimline, Rapid Start, and High Output. Available in 4′, 6′, and 8′ lengths.

CONSTRUCTION — Made of cold-rolled steel, 20 gauge minimum. All metal parts bonderized and finished in white baked enamel. Sockets are tombstone type. Channel ends permit through wiring for continuous runs. Ample knockouts provided for surface, or stem mounting. Simplified locking device and joiner couplings sharply reduce assembly time.

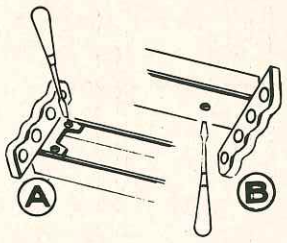
INSTALLATION — All units wired and ready for installation. Can be hung singly, or continuous row . . . surface or pendant mounting. Complete line of accessories available. See below.

BALLAST — Standard is HPF-UL, 120 volts. For variations or special applications, see price sheet.

* TURRET STRIP / CROSS SECTION 3⅝″

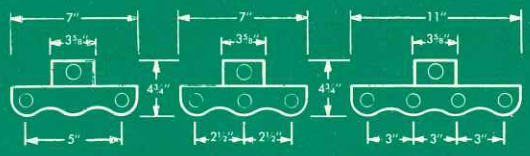
RAPID START / SLIMLINE / HIGH OUTPUT
4-6-8-16 FT. LENGTHS
2-3-4 LAMPS, 6 LAMP TANDEM
METAL LOUVERS, PLASTIC DIFFUSERS (PAGE 27) AVAILABLE AS ACCESSORIES

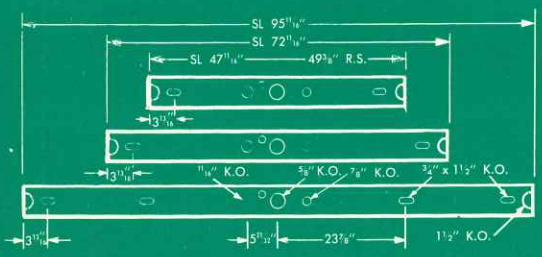
*Patent Pending



(A) SLIP-ON SOCKET-ARMS—Tighten screws

(B) EASY-ON COVER—Tightens by quarter turn





Fixture	Lamps	Type	Length	Width	Depth w/Lamp
LD-9224	2	F40/Rapid Start	49⅜″	7″	4¾″
LD-9244	4	F40/Rapid Start	49⅜″	11″	4¾″
LD-9324	2	F48T12/Slimline	47 11/16″	7″	4¾″
LD-9326	2	F72T12/Slimline	71 11/16″	7″	4¾″
LD-9328	2	F96T12/Slimline	95 11/16″	7″	4¾″
LD-9334	3	F48T12/Slimline	47 11/16″	7″	4¾″
LD-9336	3	F72T12/Slimline	71 11/16″	7″	4¾″
LD-9338	3	F96T12/Slimline	95 11/16″	7″	4¾″
LD-9339	6	F96T12/Slimline/Tandem	191⅜″	7″	4¾″
LD-9344	4	F48T12/Slimline	47 11/16″	11″	4¾″
LD-9346	4	F72T12/Slimline	71 11/16″	11″	4¾″
LD-9348	4	F96T12/Slimline	95 11/16″	11″	4¾″
LD-9424	2	F48T12/High Output	47 11/16″	7″	4¾″
LD-9426	2	F72T12/High Output	71 11/16″	7″	4¾″
LD-9428	2	F96T12/High Output	95 11/16″	7″	4¾″

ACCESSORIES — Available accessories include:

LD-9290 — 24″ Single Stem Pendant (⅜″)

LD-9291 — 24″ Twin Stem Pendant (⅜″)

LD-9292 — 12″ Extension Stem

LD-9293 — Extension Coupling

LD-9294 — Joiner for Continuous Rows

LD-9296 — Outlet Box Cover

LD-9301 — 1½″ Ceiling Spacer

LD-9302 — 45° Swivel Stem Pendant (24″)

LD-9305 — "T" Clamp

LD-10390 — Sliding Hangers

DESCRIPTION — A complete line of turret type Slimline, Rapid Start, and High Output 3⅝″ wide strips . . . in 4′, 6′, and 8′ lengths and 16′ tandems. Plastic enclosures and metal louver shields available as shown on page 27.

INSTALLATION — All units wired and ready for installation. Can be hung singly, or continuous row . . . surface or pendant mounting. Complete line of accessories available.

CONSTRUCTION — Made of cold-rolled steel, 20 gauge minimum. Metal parts Bonderized and finished in white baked enamel. Turret type sockets. Channel ends permit through wiring for continuous runs. Ample knockouts provided for surface single or double stem mounting. Pre-set screws, simplified locking device and joiner couplings sharply reduce assembly time.

BALLAST — Standard is HPF-UL, 118 volts. For variations or special applications, see price sheet.

METAL LOUVER SHIELDS

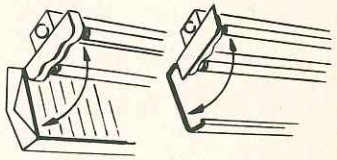
USED ON TURRET FIXTURES PAGE 26
4-8 FT. LENGTHS
EFFICIENT SHIELDING CROSSWISE AND LENGTHWISE
LIGHT STABLE WHITE STYRENE SIDE PANELS

COMMERCIAL
FLUORESCENT
INCANDESCENT

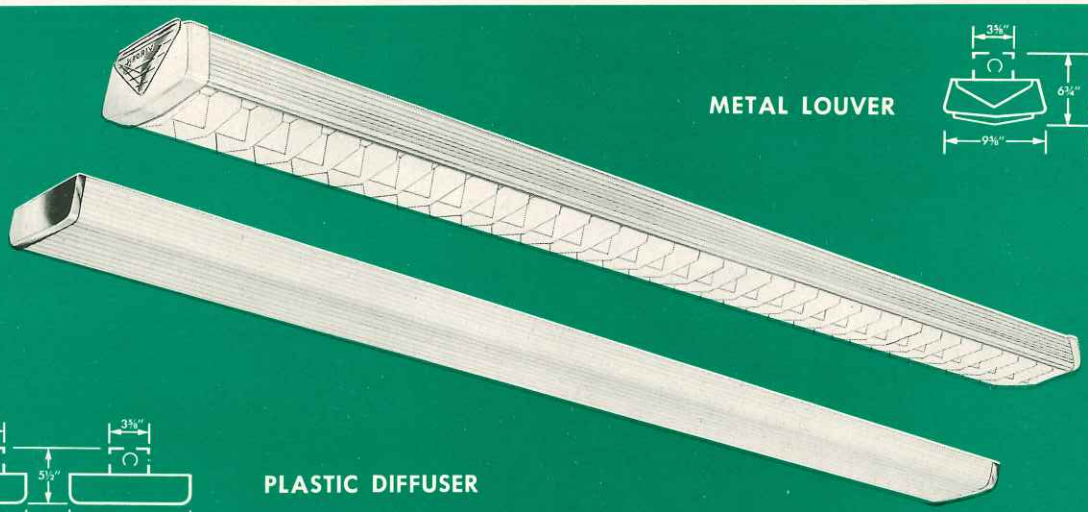
VIRDEN Lighting

PLASTIC DIFFUSERS

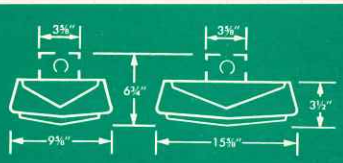
USED ON TURRET FIXTURES PAGE 26
4-6-8 FT. LENGTHS WHITE TRANSLUCENT
LIGHT STABLE PLASTIC—HINGES ON EITHER SIDE

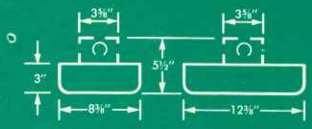


Easy hinging for cleaning and relamping



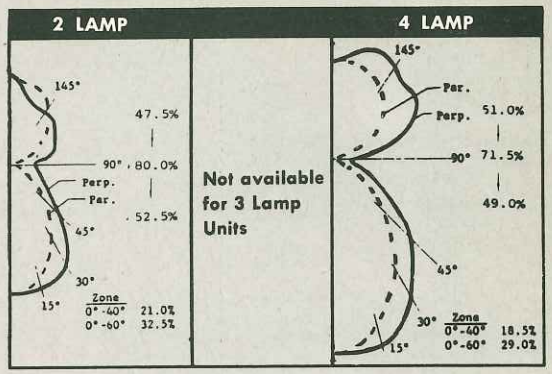
METAL LOUVER



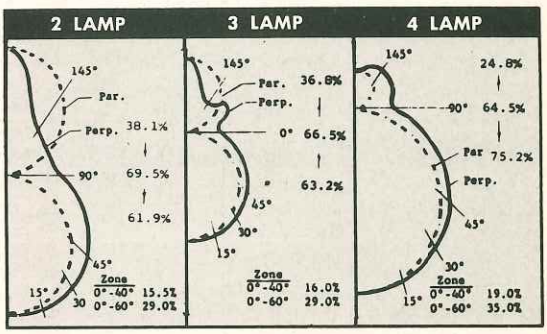


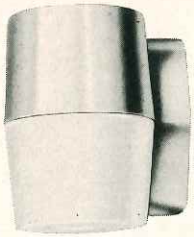
PLASTIC DIFFUSER

Metal Louvered 35° x 35° Shielding			
	Length	Width	For Use on Fixture No.
LD-9724	49½	9⅝	LD-9224
LD-9725	47⅞	9⅝	LD-9324, LD-9424
LD-9728	95⅞	9⅝	LD-9328, LD-9428
LD-9744	49½	15⅝	LD-9244
LD-9745	47⅞	15⅝	LD-9344
LD-9748	95⅞	15⅝	LD-9348



Plastic Enclosure			
Diffuser	Length	Width	For Use on Fixture No.
LD-9624	49½	8⅜	LD-9224
LD-9625	47⅞	8⅜	LD-9324, LD-9334, LD-9424
LD-9626	71⅞	8⅜	LD-9326, LD-9336, LD-9426
LD-9628	95⅞	8⅜	LD-9328, LD-9338, LD-9428
LD-9644	49½	12⅜	LD-9244
LD-9645	47⅞	12⅜	LD-9344
LD-9646	71⅞	12⅜	LD-9346
LD-9648	95⅞	12⅜	LD-9348





V-7982 is 7" high—
extends 6". 1-100W.

*SATIN ALUMINUM WHITE OPAL THREADED GLASS

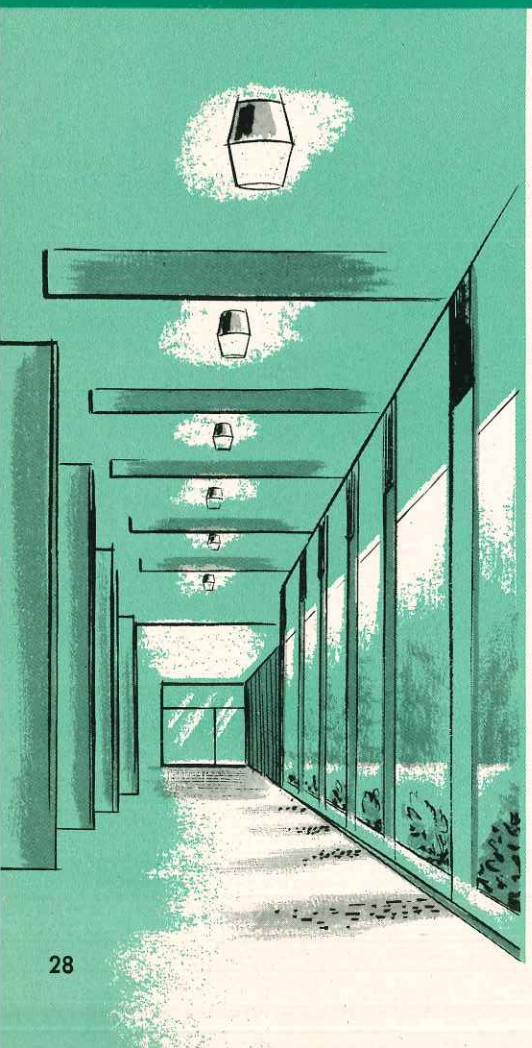
*Patent No. 2,858,418

V-7882 is 7" high—
Width 5". One 100W.

LC-7010 — 8½" diameter, 7½"
high. Extends 9¾". One 100W.

CAST ALUMINUM SATIN FINISH WEATHERPROOF WHITE OPAL THREADED GLASS

LC-7410 — Diameter 8½",
8½" high. One 100W.



FOR INDOOR AND OUTDOOR . . .

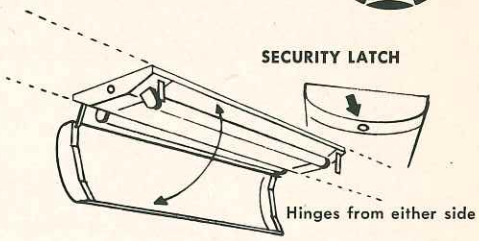
Contemporary styling and attractive finish for many applications

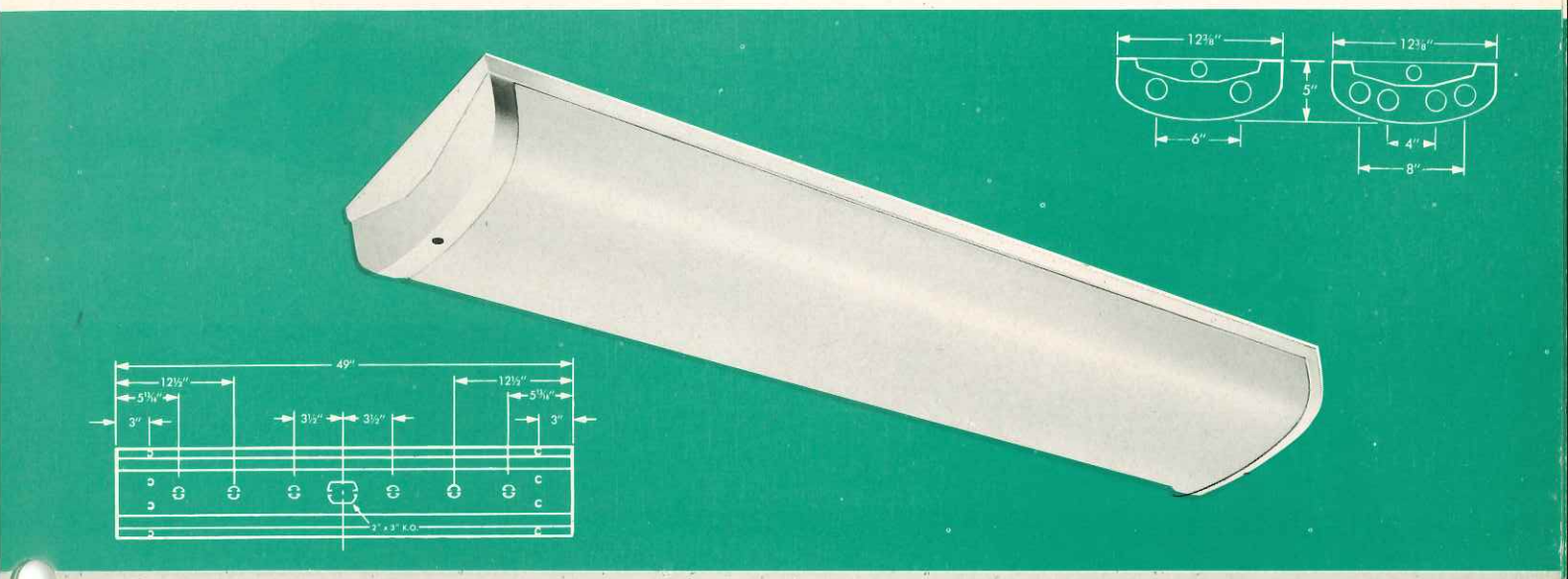
Threaded Glass for Easy Re-lamping or cleaning. Opal glass for soft and effective diffusion.

SECURITY WRAP AROUND

RAPID START. 2-4 LAMPS
4 FT. LENGTH 12⅜" WIDTH
ACRYLIC DIFFUSER

RUGGED AND TAMPERPROOF. IDEAL FOR USE WHERE ROUGH USAGE, MOISTURE OR DIRT CAN BE EXPECTED.



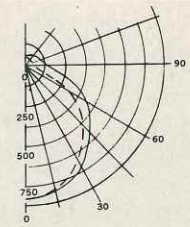


Fixture	Lamps	Type	Length	Width	Depth	Diffuser
LD-42401	2	F40/Rapid Start	51⅝"	12⅜"	5"	White Acrylic ⅛" Thick
LD-42402	4	F40/Rapid Start	51⅝"	12⅜"	5"	White Acrylic ⅛" Thick

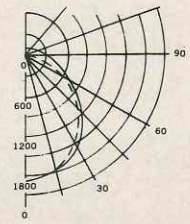
CONSTRUCTION—Cold rolled steel, minimum 20 gauge, and with extruded aluminum side diffuser frame. Metal parts bonderized and finished with white baked enamel. Diffusers sealed on all sides with vinyl gaskets. Diffuser retained by tamper-proof screws.

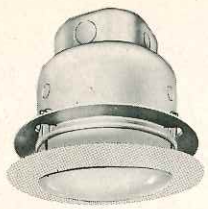
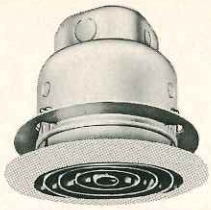
EFFICIENCY		COEFFICIENTS			BRIGHTNESS		
Surface		Surface			(Candles Per Sq. Inch.)		
LAMPS		Room Index	Rc 80% Rf 30% Rw 50%	Rw 30%	Angle	C	L
2	11.4%	0.6 (J)	.26	.21	0°	1.9	—
		0.8 (I)	.34	.28			
		1.0 (H)	.39	.33	45°	1.8	1.8
		1.25 (G)	.45	.38			
	65.9%	1.5 (F)	.49	.43	65°	1.7	1.7
		2.0 (E)	.56	.49			
		2.5 (D)	.59	.54			
		3.0 (C)	.63	.57	75°	—	1.5
		4.0 (B)	.67	.63			
	88.6%	5.0 (A)	.69	.67	90°	1.6	—
4	9.5%	0.6 (J)	.20	.17	0°	3.3	—
		0.8 (I)	.27	.22			
		1.0 (H)	.31	.25	45°	3.1	3.3
		1.25 (G)	.35	.29			
	50.2%	1.5 (F)	.37	.33	65°	2.8	3.2
		2.0 (E)	.43	.37			
		2.5 (D)	.45	.41			
		3.0 (C)	.48	.44	75°	—	2.6
		4.0 (B)	.51	.48			
	90.5%	5.0 (A)	.54	.51	90°	2.2	—

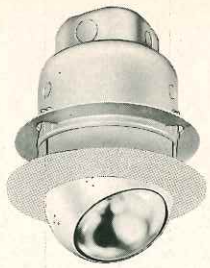
2 LAMP



4 LAMP





NEW FLAT TRIM DOWNLIGHTS - 2 SIZES, MADE OF ALUMINUM, SATIN WHITE TRIM.

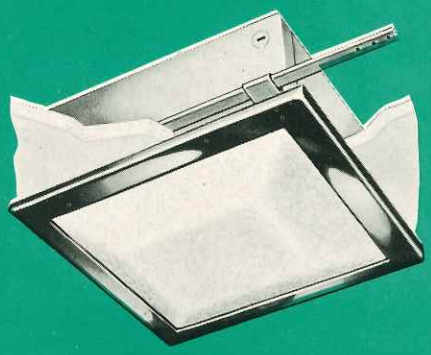
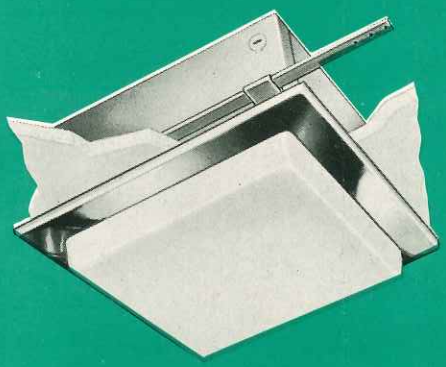
(All Virden L.C. Downlights have a Satin White Trim and are equipped with 57" of No. 14 A.F. wire and plaster rings)

LC-8205 — Open Bottom. Housing 4½ x 5¼. Flange 5¾. One R30-75W spot or flood.
LC-8206 — Open Bottom. Housing 5½ x 6⅞. Flange 7⅞. One R40-150W spot or flood.

LC-8215 — Louvered. Housing 4½ x 7. Flange 5¾. 100W or R30-75W.
LC-8216 — Louvered. Housing 5½ x 7⅞. Flange 7⅞. One R40-150W.

LC-8235—Shower Light. Waterproof gasket. Housing 5½ x 6¾. Flange 7⅞. One 75W.

LC-8583 adjusts 45° from vertical. Housing 5½" x 8⅛". Flange 7⅞". Ceiling penetration 6⅛". One R-30, 75W.

DIFFUSER	TRIM	75-Watt 8x8x5 H'ing 9⅜x9⅜ trim	100-Watt 10x10x5 H'ing 11⅜x11⅜ trim	150-Watt 12x12x5 H'ing 13⅜x13⅜ trim
BENT DECORATED DIFFUSER	BRASS	V-83-30-38	V-84-40-48	V-85-50-58
	COPPER	V-83-31-38	V-84-41-48	V-85-51-58
	POL. CHROME	V-83-32-38	V-84-42-48	V-85-52-58
	SAT. ALUM.	V-83-33-38	V-84-43-48	V-85-53-58
	SAT. WHITE	V-83-34-38	V-84-44-48	V-85-54-58

DIFFUSER	TRIM	75-Watt 8x8x5 H'ing 9⅜x9⅜ trim	100-Watt 10x10x5 H'ing 11⅜x11⅜ trim	150-Watt 12x12x5 H'ing 13⅜x13⅜ trim
MOLDED DROP OPAL	BRASS	V-83-30-37	V-84-40-47	V-85-50-57
	COPPER	V-83-31-37	V-84-41-47	V-85-51-57
	POL. CHROME	V-83-32-37	V-84-42-47	V-85-52-57
	SAT. ALUM.	V-83-33-37	V-84-43-47	V-85-53-57
	SAT. WHITE	V-83-34-37	V-84-44-47	V-85-54-57

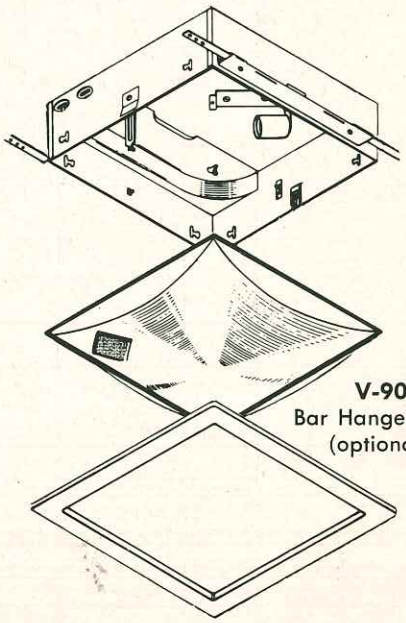
THREE PART RECESS INSTALLATION

LC-5003 Eyeball, less louver. Diameter 6½" x 6½" deep. Satin white housing and eyeball. Horizontal rotation 358°, vertical 45°. One R-30, 75W spot or flood.

V-90 BAR HANGERS (OPTIONAL)
INTERNALLY PRE-WIRED SPLICE COMPARTMENT is readily accessible for inspection and wiring to standard 60°C house wire. K.O.'s. are provided for easy wiring continuous row mounting. Recess boxes are heavy gauge steel, painted hi-bake white inside and out.

DEEP DRAWN ENGINEERED ALUMINUM REFLECTORS allow for maximum light output. Installation or removal of reflector is rapid with the Virden snap-in clip.

ONE PIECE, DIE CAST TRIMS, brass, copper and chrome are plated and polished finishes, protected by hi-bake lacquers. Hinging is rapid with our spring clip design. No light spill between frame and ceiling line.

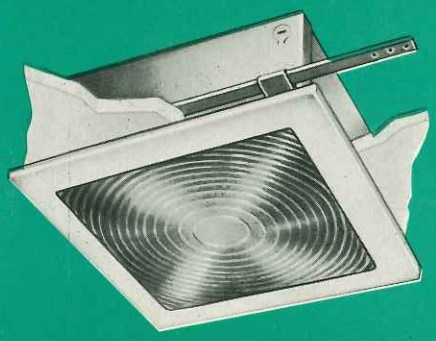


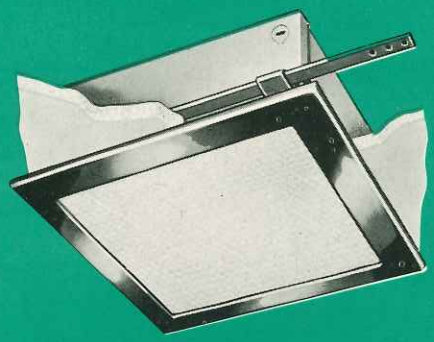
V-90
Bar Hangers, (optional)

RECESSED SQUARES AND ROUNDS

DIE CAST SQUARE TRIMS - 3 SIZES, 4 FINISHES,
4 GLASS DIFFUSERS. - 3 SIZES.
ENGINEERED ALUMINUM REFLECTORS.
INTERNALLY PREWIRED* FOR 60° C. RW WIRE.
UNDERWRITERS' LABORATORIES APPROVED.
FOR NEW OR REMODELING WORK.

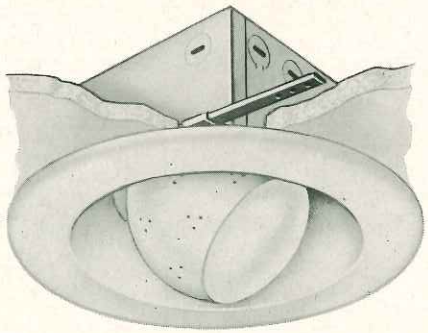
*Patent Pending

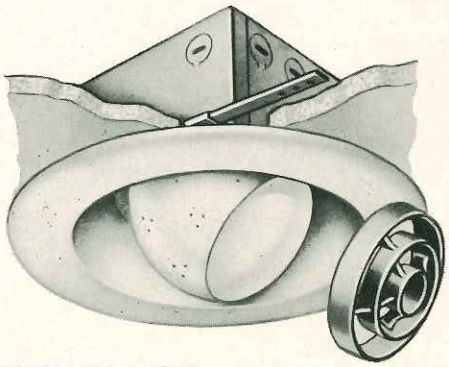




DIFFUSER	TRIM	75-Watt 8x8x5 H'ing 9⅜x9⅜ trim	100-Watt 10x10x5 H'ing 11⅜x11⅜ trim	150-Watt 12x12x5 H'ing 13⅜x13⅜ trim
MOLDED FRESNEL LENS	BRASS	V-83-30-39	V-84-40-49	V-85-50-59
	COPPER	V-83-31-39	V-84-41-49	V-85-51-59
	POL. CHROME	V-83-32-39	V-84-42-49	V-85-52-59
	SAT. ALUM.	V-83-33-39	V-84-43-49	V-85-53-59
	SAT. WHITE	V-83-34-39	V-84-44-49	V-85-54-59

DIFFUSER	TRIM	75-Watt 8x8x5 H'ing 9⅜x9⅜ trim	100-Watt 10x10x5 H'ing 11⅜x11⅜ trim	150-Watt 12x12x5 H'ing 13⅜x13⅜ trim
FLAT ALBALITE	BRASS	V-83-30-36	V-84-40-46	V-85-50-56
	COPPER	V-83-31-36	V-84-41-46	V-85-51-56
	POL. CHROME	V-83-32-36	V-84-42-46	V-85-52-56
	SAT. ALUM.	V-83-33-36	V-84-43-46	V-85-53-56
	SAT. WHITE	V-83-34-36	V-84-44-46	V-85-54-56





ADJUSTABLE RECESSED EYEBALLS

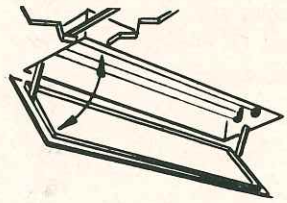
Fixtures complete with circular trim and prewired recessed box. U.L. approved—Union Made. Horizontal rotation of open type fixture 358°, vertical 45°, louvered type 38°.

LC-8873 Eyeball, less louver. Box size 8" x 8" x 5" deep. Trim size, outside dia. 12½". Satin white trim and eyeball. Horizontal rotation 358°, vertical 45°. One R-30 75W spot or flood.

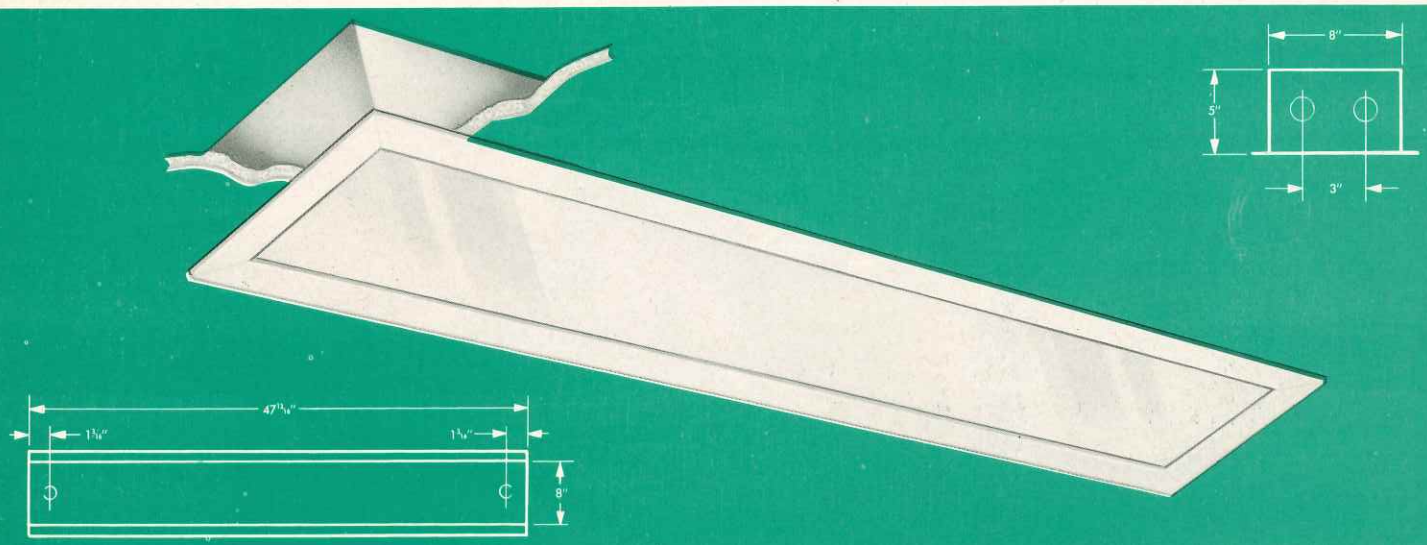
LC-8863 Eyeball, with louver. Box size 8" x 8" x 5" deep. Trim size, outside dia. 12½". Satin white trim, eyeball and louver. Horizontal rotation 358°, vertical 38°. One R-30, 75W spot or flood.

TROFFER, 8″ WIDTH

QUICK START/RAPID START 2 LAMPS
2-4 FT. LENGTHS GLASS DIFFUSER
HI-BAKE WHITE TRIM



Hinged for easy relamping

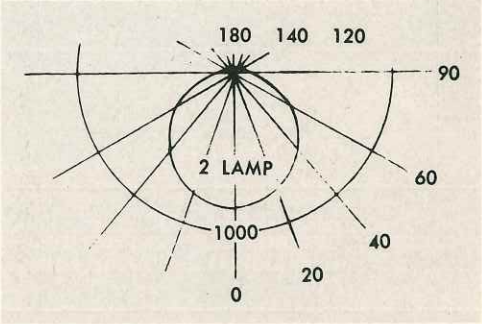


Fixture	Lamps	Type	Housing	Frame	Depth
LD-8750	2	F20T12QS	8 x 24¼	10 x 26	5″
LD-8850	2	F40	8 x 48¼	10 x 50	5″

Available in 2 & 4 ft. lengths. Low brightness glass diffusers. Trim hinges for easy maintainance.

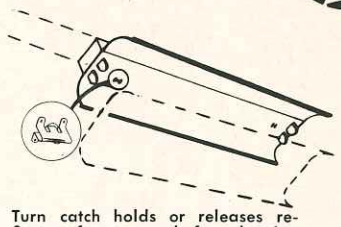
PHOTOMETRIC DATA

LAMPS	EFFICIENCY		COEFFICIENTS		BRIGHTNESS (Candles per sq. in.)		
		Room Index	Rc 80% Rw 50%	Rf 30% Rw 30%	Angle	C	L
2	2.7%	0.6 (J)	.22	.17	0°	2.2	—
		0.8 (I)	.28	.23			
		1.0 (H)	.33	.28	45°	2.2	2.2
		1.25 (G)	.37	.32			
		1.5 (F)	.41	.36	60°	2.2	2.0
	52%	2.0 (E)	.45	.41			
		2.5 (D)	.48	.44			
		3.0 (C)	.52	.47	70°	1.7	1.8
		4.0 (B)	.55	.50			
	97.3%	5.0 (A)	.58	.54	90°	1.7	—

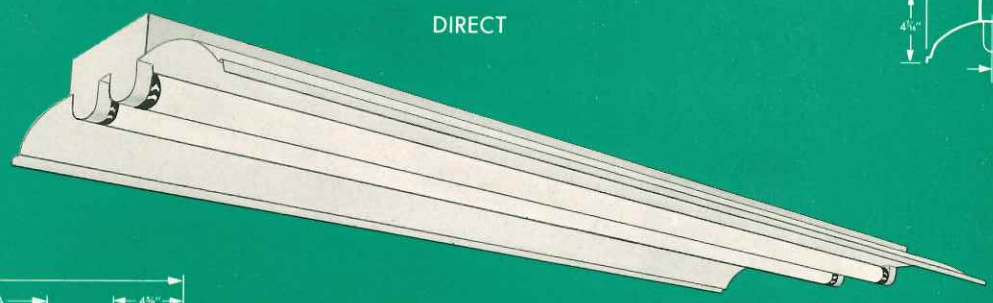


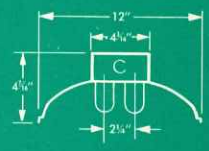
INDUSTRIAL-BUDGETLITE

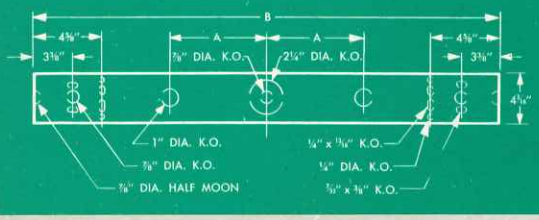
PRE-HEAT/RAPID START/SLIMLINE
4-8 FT. LENGTHS 2 LAMP
BAKED WHITE ENAMEL REFLECTOR



Turn catch holds or releases reflector for removal for cleaning







A	B	FIXTURE LENGTH
16"	48"	All 4 Foot Fixtures
24"	72"	All 6 Foot Fixtures
24"	96"	All 8 Foot Fixtures

Fixture	Lamps	Type	Length	Width	Depth	Reflector
LD-10204	2	F40/Preheat	48"	12"	4 7/16"	Baked Enamel
LD-10206	2	F40/Rapid Start	48"	12"	4 7/16"	Baked Enamel
LD-10308	2	F96T12/Slimline	96"	12"	4 7/16"	Baked Enamel

ACCESSORIES — Available accessories include:

LD-10490 — Sliding Hanger Bracket
LD-10491 — Chain Set
LD-10492 — Reflector Aligner Clip
LD-10493 — 2 Conductor Cord and Plug Set
LD-10494 — 3 Conductor Cord and Plug Set
LD-10497 — Messenger Cable Clamp
LD-10498 — Continuous Row Joiner

DESCRIPTION — Efficient lighting at budget prices! Hi-baked white enamel reflector is 12" wide. Captive latches permit quick, easy removal of reflector without tools for access to ballast, wiring or for cleaning. Available in 2 lamp, 4' Pre-Heat or Rapid Start, and 8' Slimline.

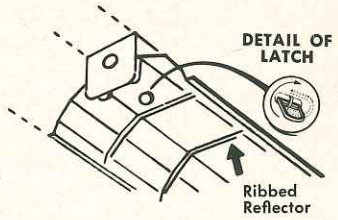
CONSTRUCTION — Channels and end caps made of 20 gauge steel. Reflectors 24 gauge. Metal parts bonderized and finished in white hi-baked enamel.

INSTALLATION — Units wired and ready for installation. Can be hung singly or in continuous rows. Channels are stamped for chain hangers and have knockouts for surface mounting or messenger cable suspension. Reflector Aligner Clip available as an accessory.

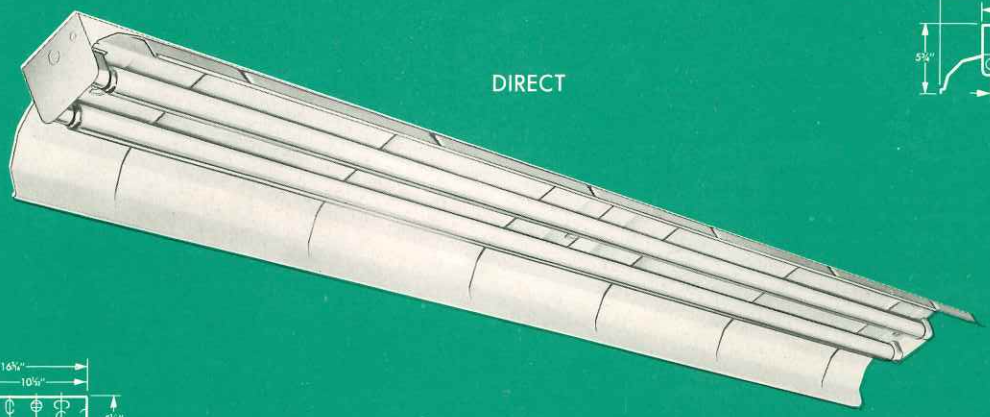
BALLAST — HPF-UL standard, 120 volts. For variations or special applications see price sheet.

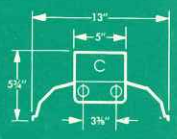
INDUSTRIAL TOMBSTONE DIRECT

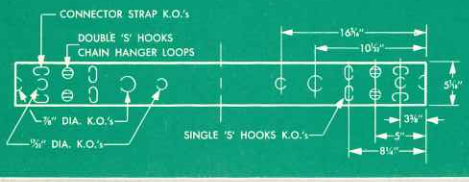
PRE-HEAT/RAPID START/SLIMLINE
HI-BAKED WHITE ENAMEL OR PORCELAIN REFLECTOR
4-8 FT. LENGTHS—2 LAMPS



Patent Nos. 2,934,184 and 3,025,391







Fixture	Lamps	Type	Length	Width	Depth	Reflector
LD-10224	2	F40/Preheat	48"	13"	5¾"	Baked Enamel
LD-10226	2	F40/Rapid Start	48"	13"	5¾"	Baked Enamel
LD-10227	2	F40/Rapid Start	48"	13"	5¾"	Porcelain
LD-10324	2	F48T12–Slimline	48"	13"	5¾"	Baked Enamel
LD-10325	2	F48T12/Slimline	48"	13"	5¾"	Porcelain
LD-10328	2	F96T12/Slimline	96"	13"	5¾"	Baked Enamel
LD-10329	2	F96T12/Slimline	96"	13"	5¾"	Porcelain 2-4' lgths.

ACCESSORIES — Available accessories include:

LD-10491 — Chain Set

LD-10493 — 2 Cord and Plug Set

LD-10494 — 3 Cord and Plug Set

LD-10495 — Reflector Aligner

LD-10497 — Messenger Cable Clamp

LD-10498 — Continuous Row Connector Strap

DESCRIPTION — Economical, durable . . . easy to install and maintain. Reflectors are 13" wide and ribbed for added strength. Baked white enamel and porcelain finishes. Captive latches permit quick, easy removal of reflector without tools. Uses 48", 2 lamp Pre-Heat, Rapid Start and Slimline, or 96" 2 lamp Slimline.

CONSTRUCTION — Channels and reflectors made from die stamped 20 gauge steel. Metal parts bonderized and finished in white baked enamel or porcelain enamel. 16 gauge endplates protect lampholders and provide rigid connections for continuous row installation.

INSTALLATION — Units wired and ready for installation. Can be hung singly or continuous row. Channels are stamped for chain hangers and have knockouts for surface mounting pendant or messenger cable suspension. Snap-in Reflector Aligner available as an accessory.

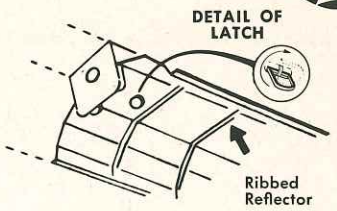
BALLAST — Standard is HPF-UL, 120 Volts. For variations or special applications see price sheet.

INDUSTRIAL TOMBSTONE SLOTTED

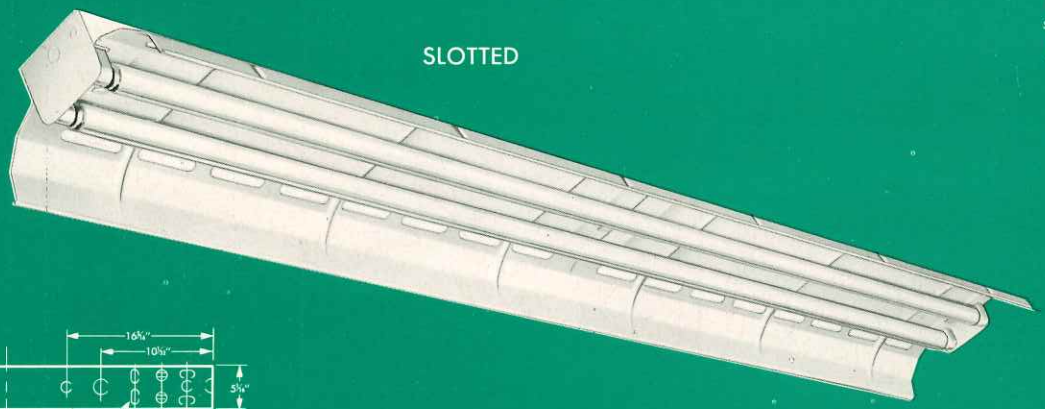
PRE-HEAT/RAPID START/SLIMLINE

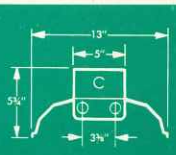
HI-BAKED WHITE ENAMEL OR PORCELAIN REFLECTOR

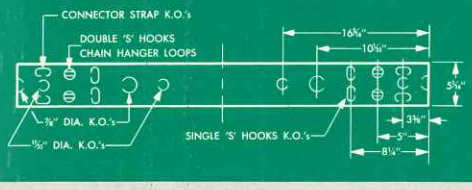
4-8 FT. LENGTHS—2 LAMPS



Patent Nos. 2,934,184 and 3,025,391







Fixture	Lamps	Type	Length	Width	Depth	Reflector
LD-10234	2	F40/Preheat	48"	13"	5¾"	Baked Enamel
LD-10236	2	F40/Rapid Start	48"	13"	5¾"	Baked Enamel
LD-10237	2	F40/Rapid Start	48"	13"	5¾"	Porcelain
LD-10334	2	F48T12/Slimline	48"	13"	5¾"	Baked Enamel
LD-10335	2	F48T12/Slimline	48"	13"	5¾"	Porcelain
LD-10338	2	F96T12/Slimline	96"	13"	5¾"	Bd. Enamel 2-4' lgth.
LD-10339	2	F96T12/Slimline	96"	13"	5¾"	Porcelain 2-4' lgths.

ACCESSORIES — Available accessories include:

LD-10491 — Chain Set
LD-10493 — 2 Cord and Plug Set
LD-10494 — 3 Cord and Plug Set
LD-10495 — Reflector Aligner
LD-10497 — Messenger Cable Clamp
LD-10498 — Continuous Row Connector Strap

DESCRIPTION — Economical, durable . . . easy to install and maintain! Reflectors are 13" wide and ribbed for added strength. Baked white enamel and porcelain finishes. Captive latches permit quick, easy removal of reflector without tools. Uses 48", 2 lamp Pre-Heat, Rapid Start and Slimline, or 96" 2 lamp Slimline. Slots in reflector provide 10% uplight reducing sharp contrasts between dark and lighted zones.

CONSTRUCTION — Channels and reflectors made from die stamped 20 gauge steel. Metal parts bonderized and finished in white baked enamel or porcelain enamel. 16 gauge endplates protect lampholders and provide rigid connections for continuous row installation.

INSTALLATION — Units wired and ready for installation. Can be hung singly or continuous row. Channels are stamped for chain hangers and have knockouts for surface mounting pendant or messenger cable suspension. Snap-in Reflector Aligner available as an accessory.

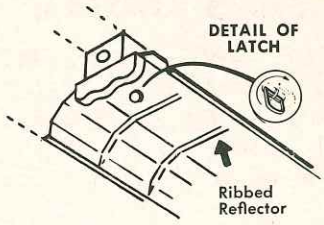
BALLAST — Standard is HPF-UL, 120 Volts. For variations or special applications see price sheet.

INDUSTRIAL TURRET

RAPID START/SLIMLINE/HIGH OUTPUT
DIRECT AND SLOTTED REFLECTORS
HI-BAKE: WHITE ENAMEL OR PORCELAIN
4-8 FT. LENGTHS—2 LAMPS

BALLAST STANDARD IS HPF-UL EXCEPT WHEN LISTED OTHERWISE.

FOR SPECIALS OR VARIATIONS, SEE PRICE SHEET.



DIRECT REFLECTORS

Fixture	Lamps	Type	Length	Width	Depth	Reflector
LD-10246	2	F40/Rapid Start	49⅜"	13"	6¼"	Baked Enamel
LD-10247	2	F40/Rapid Start	49⅜"	13"	6¼"	Porcelain
LD-10344	2	F48T12/Slimline	47¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10345	2	F48T12/Slimline	47¹¹⁄₁₆"	13"	6¼"	Porcelain
LD-10348	2	F96T12/Slimline	95¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10349	2	F96T12/Slimline	95¹¹⁄₁₆"	13"	6¼"	Porcelain 2-4' lgths.
LD-10444	2	F48T12/High Output	47¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10445	2	F48T12/High Output	47¹¹⁄₁₆"	13"	6¼"	Porcelain
LD-10448	2	F96T12/High Output	95¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10449	2	F96T12/High Output	95¹¹⁄₁₆"	13"	6¼"	Porcelain 2-4' lgths.

ACCESSORIES — Available accessories include:

LD-10390 — Sliding Hangers

LD-10491 — Chain Set

LD-10493 — 2 Cord and Plug Set

LD-10494 — 3 Cord and Plug Set

LD-10496 — Reflector Aligner

LD-10497 — Messenger Cable Clamp

LD-10499 — Continuous Run Aligner

SLOTTED REFLECTORS 10% UPLIGHT

LD-10256	2	F40/Rapid Start	49⅜"	13"	6¼"	Baked Enamel
LD-10257	2	F40/Rapid Start	49⅜"	13"	6¼"	Porcelain
LD-10354	2	F48T12/Slimline	47¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10355	2	F48T12/Slimline	47¹¹⁄₁₆"	13"	6¼"	Porcelain
LD-10358	2	F96T12/Slimline	95¹¹⁄₁₆"	13"	6¼"	Bd. Enamel 2-4' lgts.
LD-10359	2	F96T12/Slimline	95¹¹⁄₁₆"	13"	6¼"	Porcelain 2-4' lgths.
LD-10454	2	F48T12/High Output	47¹¹⁄₁₆"	13"	6¼"	Baked Enamel
LD-10455	2	F48T12/High Output	47¹¹⁄₁₆"	13"	6¼"	Porcelain
LD-10458	2	F96T12/High Output	95¹¹⁄₁₆"	13"	6¼"	Bd. Enamel 2-4' lgts.
LD-10459	2	F96T12/High Output	95¹¹⁄₁₆"	13"	6¼"	Porcelain 2-4' lgths.

PRINCIPAL USES — Economical — Efficient! Ideal for factory:

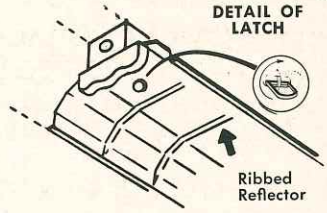
- General Work Areas
- Over Work Benches
- Warehouses

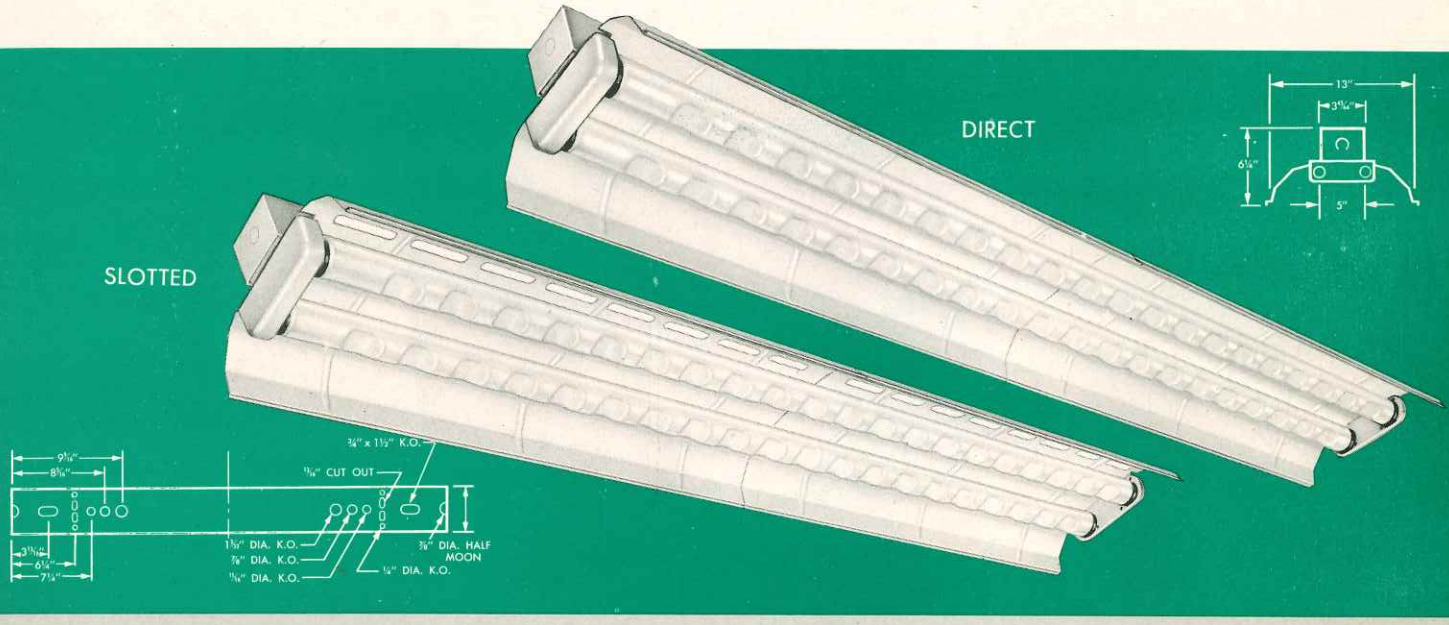
. . . wherever efficient lighting is desired and cost a factor!

DESCRIPTION — Fluorescent industrials that offer excellent lighting efficiency plus design advantages that reduce installation time, service and maintenance. Available in 2 light Slimline, Rapid Start and High Output in 4' and 8' lengths. Embossed reflector can be removed without tools by means of captive latch. Reflector available in baked enamel and porcelain enamel. Channels and reflectors made from 20 gauge steel.

INDUSTRIAL TURRET PG. VHO. SHO

DIRECT AND SLOTTED REFLECTORS
HI-BAKE WHITE ENAMEL OR PORCELAIN
4-8 FT. LENGTHS—2 LAMPS





DIRECT REFLECTORS

Fixture	Lamps	Type	Length	Width	Depth	Reflector
LD-10544	2	F48PG, VHO, SHO	47 11/16"	13"	6¼"	Baked Enamel
LD-10545	2	F48PG, VHO, SHO	47 11/16"	13"	6¼"	Porcelain
LD-10548	2	F96PG, VHO, SHO	95 11/16"	13"	6¼"	Baked Enamel
LD-10549	2	F96PG, VHO, SHO	95 11/16"	13"	6¼"	Porcelain 2-4'

INSTALLATION — Units wired and ready for installation. Can be hung singly or in continuous row. Channels stamped for chain hangers, and have ample knockouts for pendant or messenger cable suspensions. Snap-in reflector aligning strap eliminates light leaks, keeps rows true. Reflectors are embossed with reinforcing ribs.

ACCESSORIES — Available accessories include:

LD-10390 — Sliding Hangers

LD-10491 — Chain Set

LD-10493 — 2 Cord and Plug Set

LD-10494 — 3 Cord and Plug Set

LD-10496 — Reflector Aligner

LD-10497 — Messenger Cable Clamp

LD-10499 — Continuous Run Aligner

SLOTTED REFLECTOR 10% UPLIGHT

LD-10554	2	F48PG, VHO, SHO	47 11/16"	13"	6¼"	Baked Enamel
LD-10555	2	F48PG, VHO, SHO	47 11/16"	13"	6¼"	Porcelain
LD-10558	2	F96PG, VHO, SHO	95 11/16"	13"	6¼"	Baked Enamel 2-4' lgths.
LD-10559	2	F96PG, VHO, SHO	95 11/16"	13"	6¼"	Porcelain 2-4' lgths.

Reflectors are white baked enamel or porcelain enamel; minimum reflectance 87% for baked enamel and 85% for porcelain enamel.

Finish shall meet or exceed the United States Government requirements for durability.

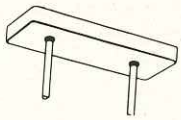
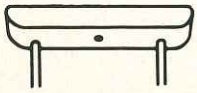
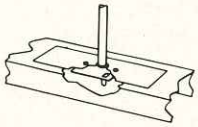
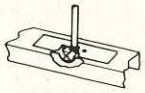
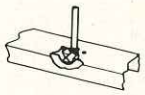
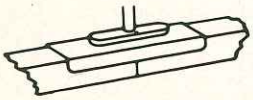
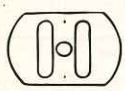
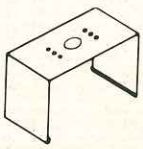
Fixtures carry the UL and Union labels.

PRINCIPAL USES — For all general industrial use:

- Storerooms
- Shipping Bays
- Warehouses

. . . General Industrial Uses.

ACCESSORIES

ILLUSTRATION	PART NUMBER	DESCRIPTION	ILLUSTRATION	PART NUMBER	DESCRIPTION
	LD-9193	10′ Cord and Plug Set for Valance Fixtures 2 11/16 Cross Section		LD-9302	45° Single Swivel Stem (24″ long)
	LD-9195	Symmetric Reflector for 40W only		LD-9303	Twin Stem Set 24″ long 7″ Centers
	LD-9196	Asymmetric Reflector for 40W only		LD-9304	Ceiling Spacer Drop 1½″
	LD-9290	24″ Rigid Stem Pendant (⅜″ Pipe)		LD-9305	T Clamp
	LD-9291	24″ Rigid Twin Stem (⅜″ Pipe) 11 5/16″ Centers		LD-9306	Fixed Bottom Stem Plate use W/LD-9302
	LD-9292	12″ Extension Stem (⅜″ Pipe)		LD-9307	Swivel Bottom Stem Plate use W/LD-9302
	LD-9293	Extension Coupling (⅜″ Pipe)		LD-9308	45° Bottom Swivel
	LD-9294	Continuous Run Joiner		LD-9309	Fixed Bottom Connector for Continuous Rows
	LD-9296	Outlet Box Cover		LD-9310	Swivel Bottom Connector for Continuous Rows
	LD-9301	Ceiling Spacer Drop 1½″		LD-10390	Sliding Hanger Brkt. for 3⅝″ Channel

ACCESSORIES

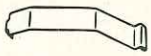
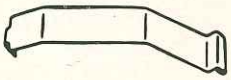
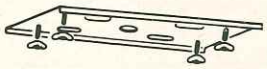
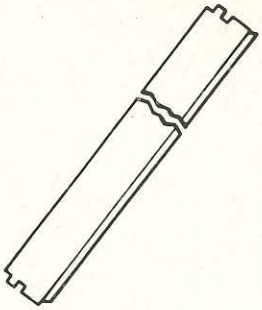
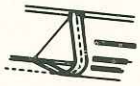
ILLUSTRATION	PART NUMBER	DESCRIPTION
	LD-10490	Sliding Hanger Brkt. for 4¼" Channel
	LD-10491	No. 14 Jack Chain 3' long with 4 "S" Hooks
	LD-10492	Reflector Aligner for Comet Series
	LD-10493	4' - 18/2 SJ. Cord and Plug Set
	LD-10494	4' - 18/3 SJ. Cord and Plug Set
	LD-10495	Reflector Aligner
	LD-10496	Reflector Aligner — White
	LD-10497	Messenger Cable Clamp
	LD-10498	Connector Strap for Continuous Rows
	LD-10499	Connector Strap for Continuous Rows

ILLUSTRATION	PART NUMBER	DESCRIPTION
	LD-16391	Top Plate for 2-lamp Fixtures
	LD-16392	Top Plate for 4-lamp Fixtures 4'
	LD-16393	Top Plate for 4-lamp Fixture 8'
	LD-41890	Continuous Row Joiner Strap
	LD-55590	2 x 4 Plaster Frame w/Yoke, Individual
	LD-55591	2 x 8 Plaster Frame w/Yoke, Individual
	LD-55592	2 x 4 Plaster Frame w/Yoke, Continuous
	LD-55593	2 x 8 Plaster Frame w/Yoke, Continuous
	LD-55594	Plaster Frame Ends (Pair)
	LD-55595	2 x 2 Plaster Frame
	LD-55596	Yoke Only

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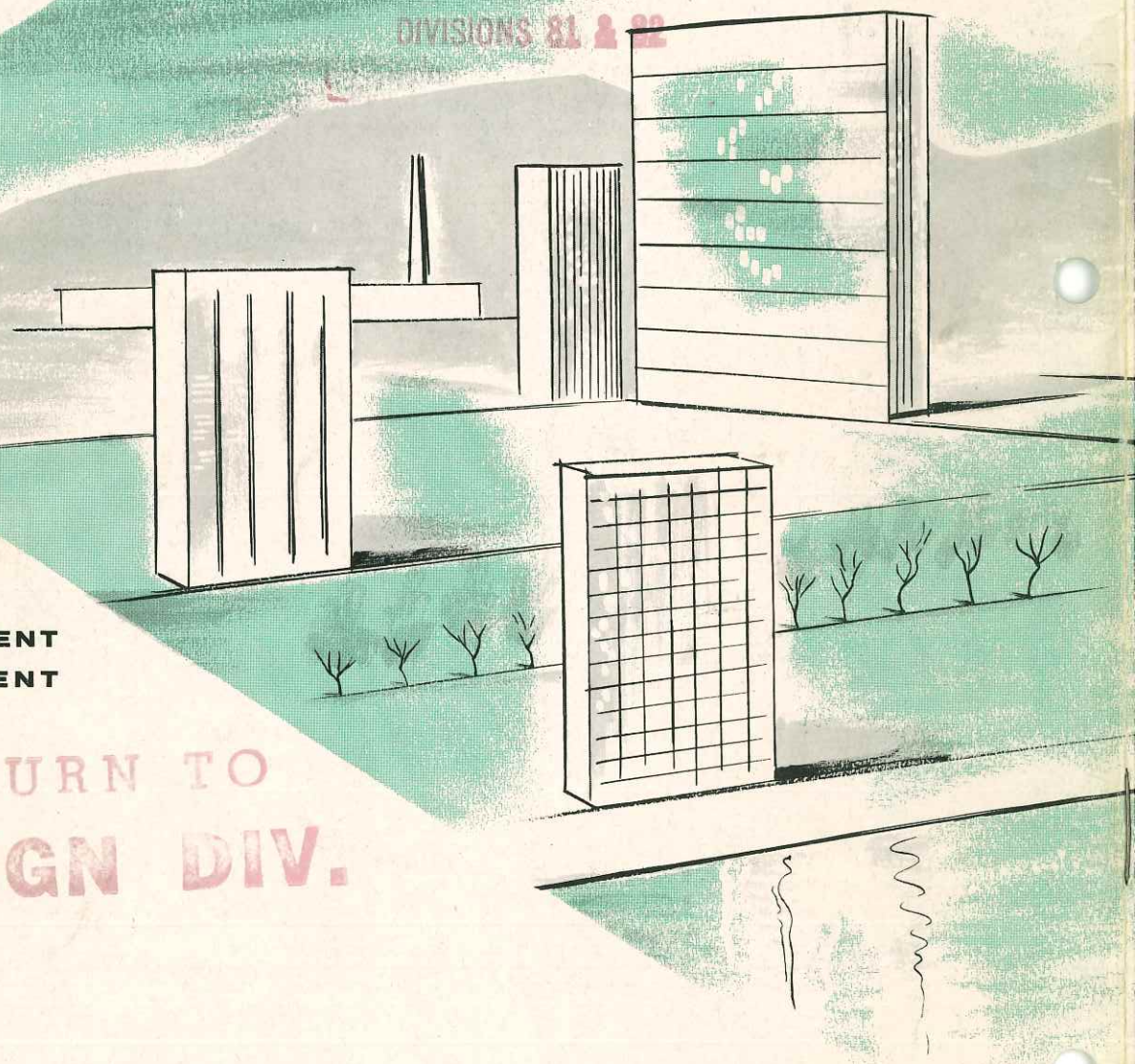

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